PS-F5

SERVICE MANUAL

US Model
AEP Model
E Model

SPECIFICATIONS

Turntable

Platter	9.15 cm (3 5/8 in.), strontium-ferrite
Motor	Linear torque BSL (brushless and slotless) motor
Drive system	Direct drive
Control system	Variable reluctance control system
Speed	33⅓ rpm, 45 rpm
Starting characteristics	Comes to nominal speed within a half revolution (33⅓ rpm)
Wow and flutter	0.06% (WRMS)* ±0.14% (DIN)*
Signal-to-noise ratio	59 dB (DIN B)
Automatic system	Lead-in, return, reject, arm up/down

Tonearm

Type	Dynamic balanced, linear tracking, low mass type
Pivot-to-stylus length	37.5 mm (1½ in.)

Cartridge (VL-44GA)

Type	Moving magnet type
Frequency response	20–20,000 Hz ±3 dB
Channel separation	20 dB at 1 kHz
Output voltage	2.3 mV (1 kHz, 3.54 cm/s)
Tracking force	1.7 g
Stylus	Sony ND-144G (0.6 mil diamond)

Amplifier section

Outputs

PHONES / REC OUT A,B (stereo minijacks)
Power output 20 mW + 20 mW
(at 10% harmonic distortion, 32 ohms load)
Load impedance 8–300 ohms

General

Battery life (output 0.5 mW + 0.5 mW, headphones, 30 cm records, 33⅓ rpm, continuous record play in the horizontal position) (hours)

Sony New Super battery SUM-3 (NS) (Eveready Heavy Duty battery No. 1215)	3.5
Eveready Alkaline battery No. E91	8.5

Power requirements

6 V dc; four batteries, IEC designation R6 (size AA)
Rechargeable battery pack BP-61 (optional)
DC IN 6 V jack accepts;
AC power adaptor:
Refer to the following chart to choose the correct adaptor for your area.

Country	AC power line voltage	Optional ac power adaptor
The USA	120 V ac, 60 Hz	AC-9W
Continental European countries	220 V ac, 50 Hz	AC-456C available in Continental European countries
Other countries	120 V ac (110, 220 or 240 V ac, adjustable by Sony personnel), 50/60 Hz	AC-122 available in Japan
	110, 120, 220 or 240 V ac, adjustable, 50/60 Hz	AC-4A available in other countries

Car battery cord (optional)
DCC-127A for use on 12 V car battery

Dimensions: Approx. 108 × 263 × 78 mm (w/h/d) (4 3/8 × 10 3/8 × 3 1/8 in.) incl. projecting parts and controls

Weight: Approx. 1.7 kg (3 lb 12 oz) incl. batteries

STEREO TURNTABLE SYSTEM

SONY®

AUD

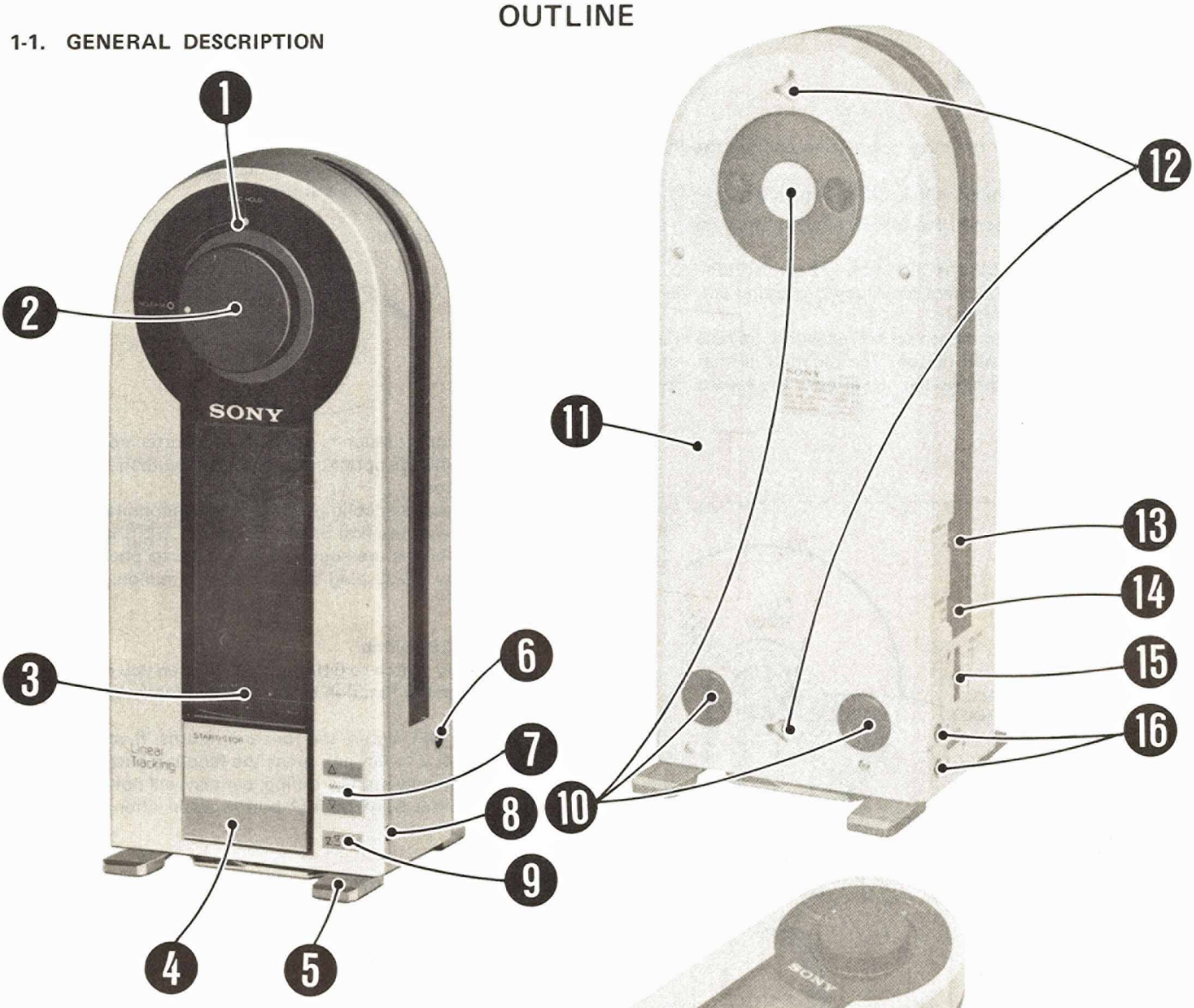
MICROFILM

FEATURES

- You can take the PS-F5 with you anywhere, since the set is compact and lightweight, and operates on batteries. Its smart, innovative design allows it to be used standing upright, lying down or hanging on a wall.
- The PS-F5's built-in headphone amplifier allows two pairs of headphones to be connected directly to the set, while the built-in equalizer amplifier allows the set to be connected directly to a radio cassette recorder.
- This turntable system is equipped with a linear tracking tonearm. You do not have to adjust tonearm balance.
- The linear torque BSL (brushless and slotless) direct drive servo motor has a high signal-to-noise ratio.
- When you select the record size and speed, place the record and set the DISC HOLD knob to DISC HOLD, automatic record play and stylus up/down are operated by the "feather-touch" function buttons. When the play is finished, the tonearm automatically returns to the rest position.
- A muting system activates when the tonearm is lifted and is deactivated after the tonearm lowers onto a record so there is no need to turn the volume down every time the stylus is placed on a record.
- A record cleaning brush built under the tonearm cleans the surface of the record while it is playing.

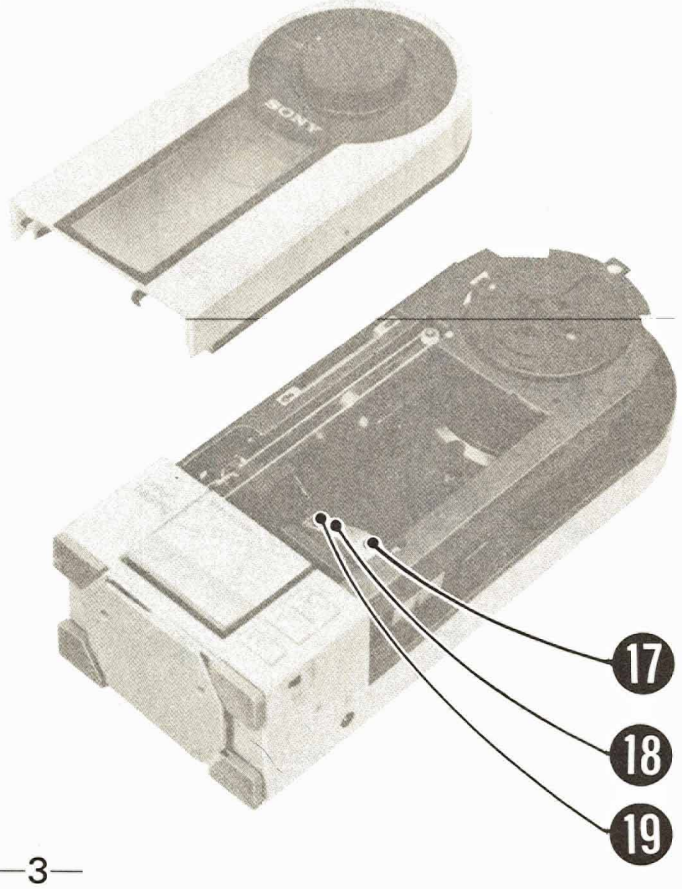
SECTION 1
OUTLINE

1-1. GENERAL DESCRIPTION



PARTS IDENTIFICATIONS

❶ Disc holder
❷ DISC HOLD knob
❸ OPR/BATT (operation/battery) indicator
❹ START/STOP button
❺ Feet
❻ DC IN 6 V (external power input) jack
❼ MANUAL (arm transport) buttons
❽ POWER switch
❾ ▽▽ (arm down/up) button
❿ Rubber cushions
⓫ Battery compartment
⓬ Openings to allow hanging on a wall
⓭ SIZE selector
⓮ SPEED selector
⓯ VOLUME control
⓰ PHONES/REC OUT (headphones/recording out) jacks
⓱ Tonearm
⓲ Cartridge
⓳ Stylus

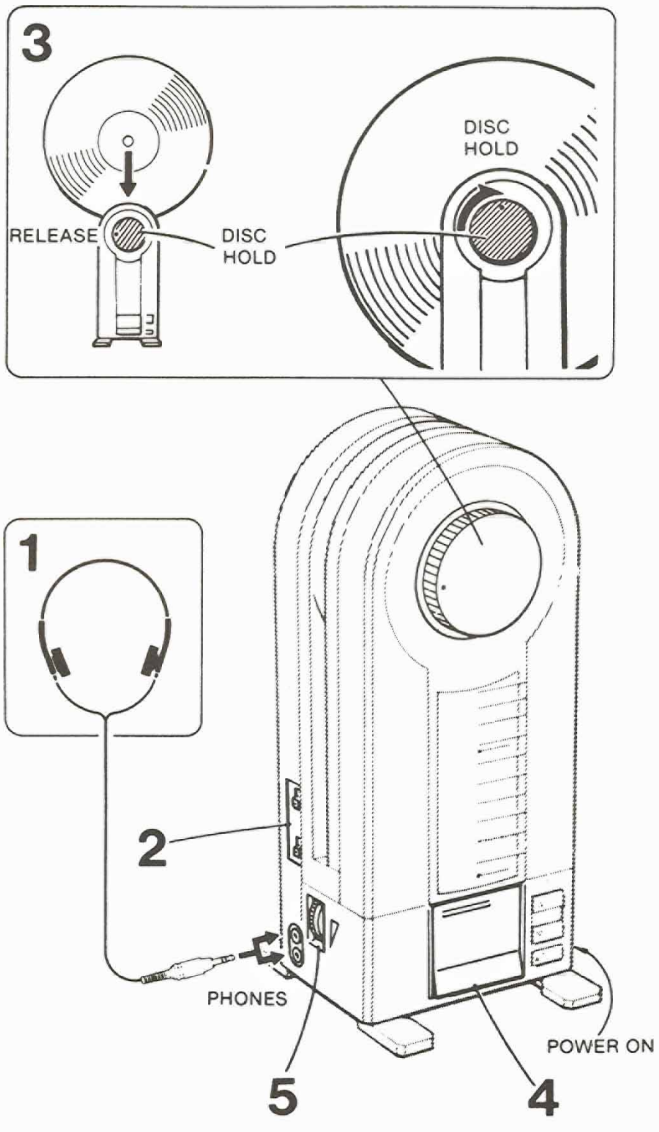


RECORD PLAYING

AUTO PLAY

Before starting, remove the dust guard band and set the POWER switch to ON.

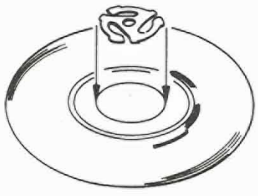
1 Connect the headphones with a stereo miniplug to PHONES REC OUT jack.
2 Set the SIZE selector and the SPEED selector depending on the record.
3 Make sure that the DISC HOLD knob is set to RELEASE. Insert the record with the desired side facing you and set the DISC HOLD knob to DISC HOLD.
In general 17-cm records can be played without a hole adaptor.
4 Press the START/STOP button. The record will start rotating, and the tonearm will move and lower onto the record. Play will begin.
5 Adjust the volume.



When the tonearm reaches the end of the record, the record will stop rotating and the tonearm will automatically return.

Notes

- Do not let your hand or objects nearby touch the record during play.
- 25-cm records cannot be played.
- If the record is badly warped, it may be impossible to play it because the rotation will be distorted.
- If a 17-cm record does not rotate or rotates irregularly, use the supplied 45-rpm adaptor.



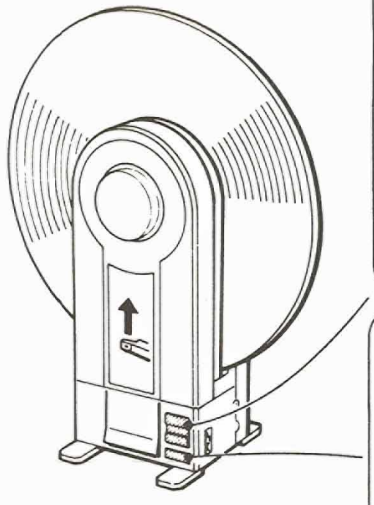
- If a 30-cm record rotation is irregular or distorted sound is heard when the PS-F5 stands upright, play the record with the PS-F5 in the horizontal position.
- You can connect a second pair of stereo headphones having the same impedance as the first one to the extra PHONES REC OUT jack.
- If your headphones are equipped with a stereo phone plug, use an optional Sony PC-33 plug adaptor (stereo miniplug ⟷ stereo phone jack).

About the POWER switch

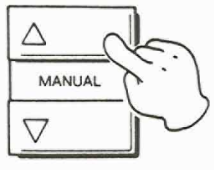
Normally set this switch to ON. Set to OFF when you carry the set. Even if you touch the function buttons inadvertently, power will not be supplied.

Do not set it to OFF before the tonearm returns. If you do so, the next time you set it to ON and press the function button, the tonearm will automatically start returning, but play will not begin. If this happens, press the START/STOP button again after the tonearm has returned.

TO BEGIN RECORD PLAY AT A PARTICULAR POINT



1 Move the tonearm over the record to your desired point by pressing the MANUAL △ (forward) button. For fine adjustments, press and immediately release the △ button or MANUAL ▽ (back) button.



2 Press the ▽▽ button. The tonearm will lower onto the record and play will begin.

When the tonearm reaches the end of the record, the record will stop rotating and the tonearm will return to its rest position.

TO STOP DURING PLAY
Press the START/STOP button. The record rotation will stop and the tonearm will return to its rest position.
To start the play again, press the START/STOP button after the tonearm has returned.

TO LIFT UP THE TONEARM DURING PLAY
Press the ▽▽ button. The tonearm lifts up from the record while the record is rotating. You can restart the play at about the same point by pressing the ▽▽ button again. This is useful when you want to stop the play briefly.

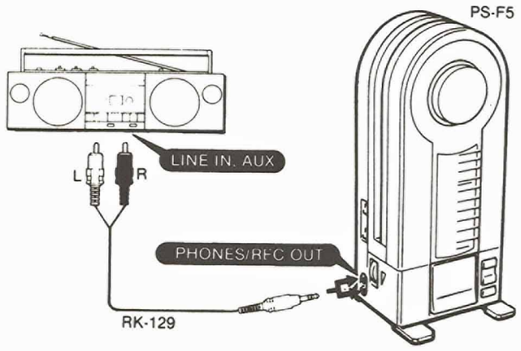
TO MOVE TO A DIFFERENT PART OF A RECORD DURING PLAY
1 Move the tonearm to another point by pressing the MANUAL △ or ▽ button. To play a selection ahead, press the △ button. To play a previous selection, press the ▽ button.
2 Press the ▽▽ button. The tonearm will lower onto the record and play will begin.

WHEN PLAY IS FINISHED
Set the DISC HOLD knob to RELEASE and remove the record. Remember to replace the supplied dust guard band on the set.

TO CONNECT TO A RADIO CASSETTE RECORDER

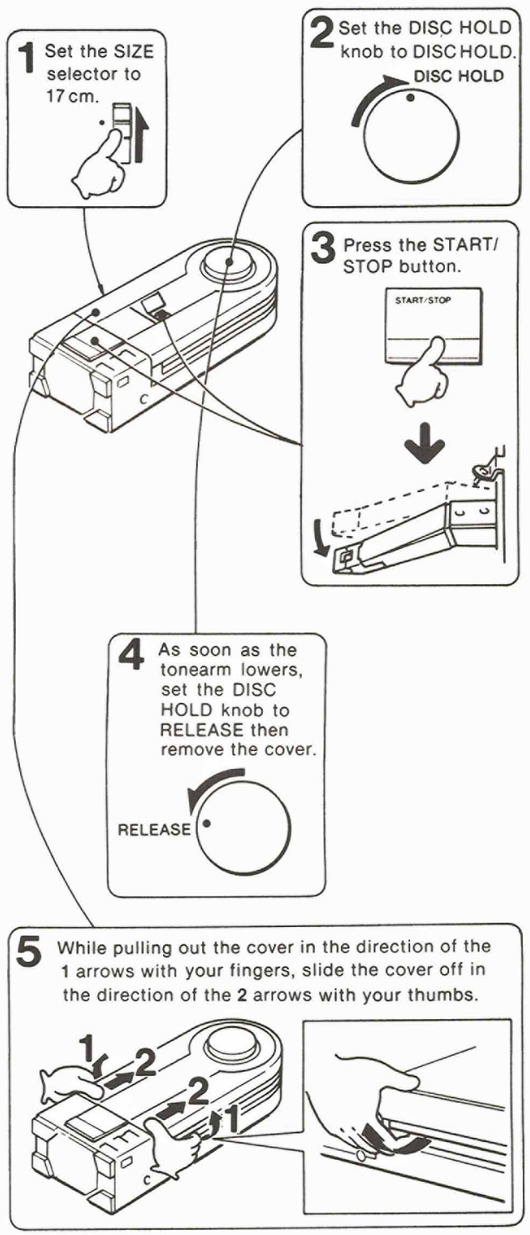
- Turn off a radio cassette recorder before making connections.
- Be sure to insert the cable connectors firmly into the jacks. Loose connections may cause hum and noise.
- Leave a little slack in the connecting cord to allow for inadvertent shock or vibration.
- Use the supplied RK-129 connecting cord.
  White phono plug ..... to L terminal
  Red phono plug ..... to R terminal
- Set the VOLUME control of the PS-F5 from 3 to 6.

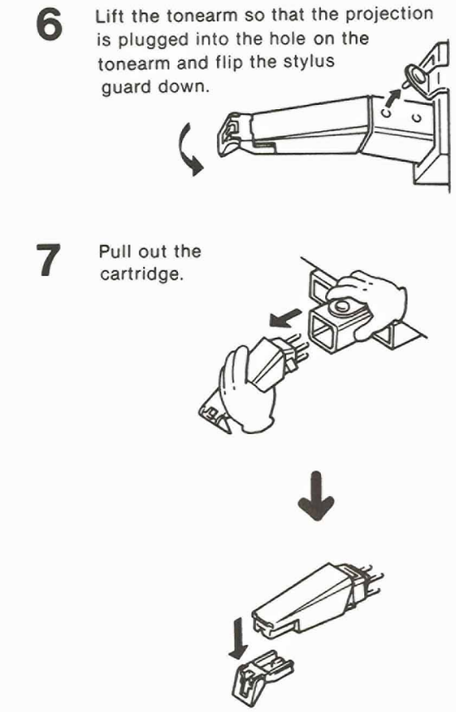
If your radio cassette recorder is equipped with a LINE IN/PHONO input selector, set it to LINE IN.
The program on a disc can be recorded on a radio cassette recorder. A small stereo cassette recorder can also be connected. If the cassette recorder is equipped with a LINE IN jack (stereo minijack), use an optional Sony RK-136 connecting cord. If the cassette recorder is equipped with a MIC jack (stereo minijack), use an optional Sony RK-134 connecting cord.



MAINTENANCE

Stylus
Before playing a record, clean the stylus with a soft brush or the supplied brush.


1 Set the SIZE selector to 17 cm.
2 Set the DISC HOLD knob to DISC HOLD.
DISC HOLD
3 Press the START/STOP button.
START/STOP
4 As soon as the tonearm lowers, set the DISC HOLD knob to RELEASE then remove the cover.
RELEASE
5 While pulling out the cover in the direction of the 1 arrows with your fingers, slide the cover off in the direction of the 2 arrows with your thumbs.
1
2
2
1

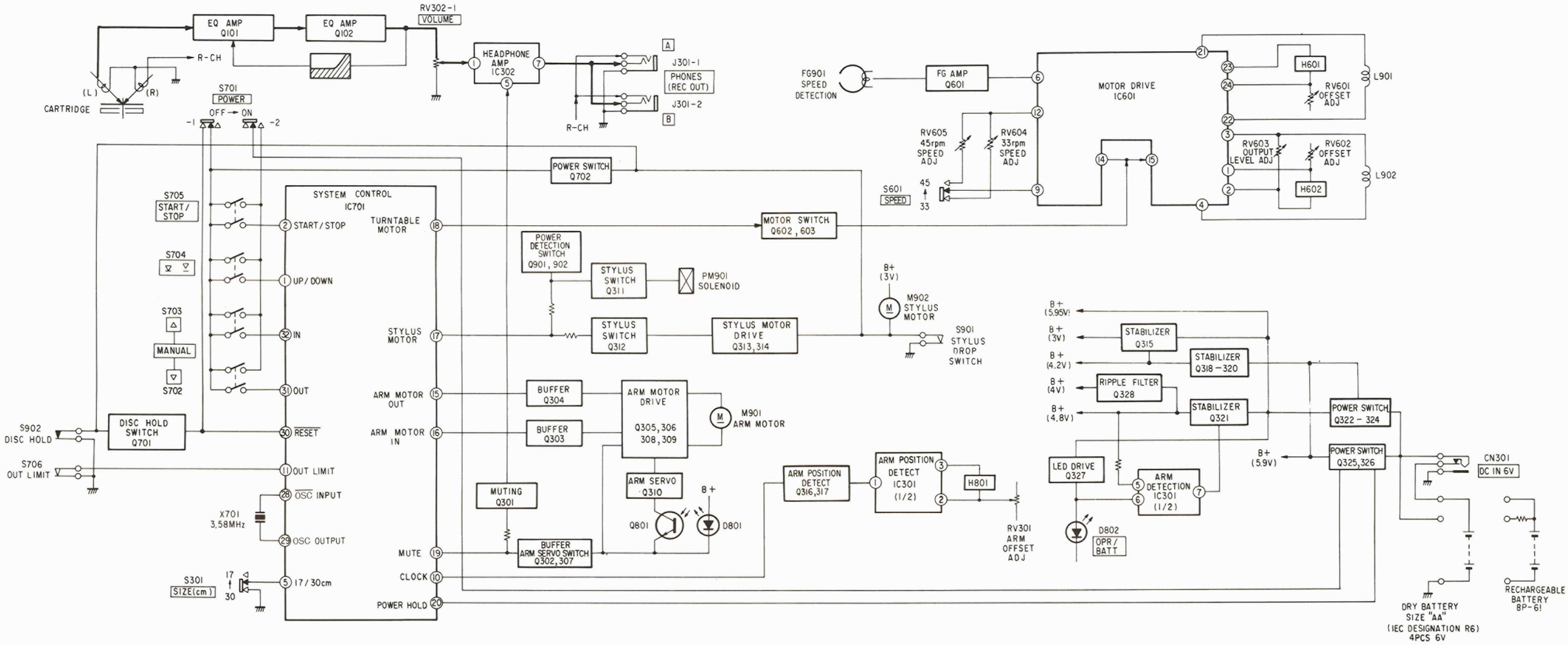

6 Lift the tonearm so that the projection is plugged into the hole on the tonearm and flip the stylus guard down.
7 Pull out the cartridge.

Brush the stylus from back to front. Never attempt to clean the stylus with your finger tip. If a fluid stylus cleaner is used, make sure not to moisten the stylus too much.

Replacing the stylus
Replace the stylus every 400 hours of use. For the replacement stylus, use the Sony ND-144G (optional).
Detach the cartridge, then remove the stylus.
Handle the stylus carefully as it is very delicate.
Install a new replacement stylus in the cartridge and then plug the cartridge into the tonearm. Replace the cover and return the tonearm to its rest position.

If there is a line of dust running across the record
A line of dust appearing on the record after the record has been played has probably been left there by the dusty record cleaning brush (which is under the tonearm). Clean the record cleaning brush with the supplied small brush.

1-2. BLOCK DIAGRAM

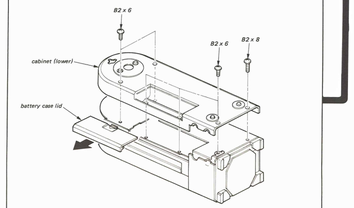


SECTION 2
DISASSEMBLY

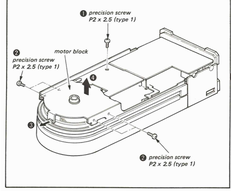
2-1. REMOVAL

Note: Follow the disassembly procedure in the numerical order given.

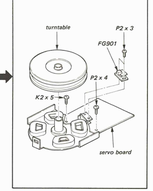
CABINET (LOWER)



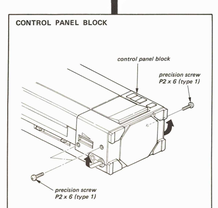
MOTOR BLOCK



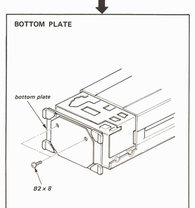
SERVO BOARD



CONTROL PANEL BLOCK

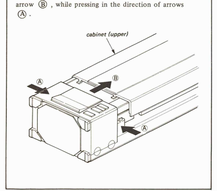


BOTTOM PLATE

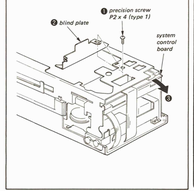


CABINET (UPPER)

Remove the cabinet (upper) in the direction of arrow Ⓑ, while pressing in the direction of arrows Ⓐ.



SYSTEM CONTROL BOARD



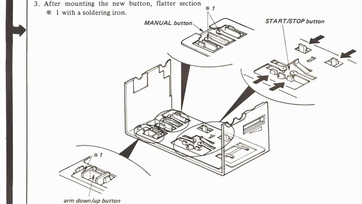
CONTROL BUTTON REPLACEMENT

— Arm down/up, MANUAL button replacement —

1. Remove the deposit at the section marked ※ 1 on the button to be replaced with a soldering iron or nippers.
2. Lift the button up to remove and replace with a new one.
3. After mounting the new button, flatter section ※ 1 with a soldering iron.

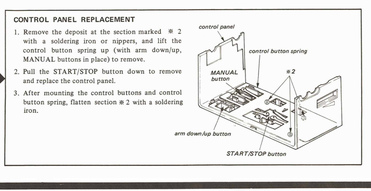
— START/STOP button replacement —

Pull the button down to remove while pressing the claws in the direction of the arrows.

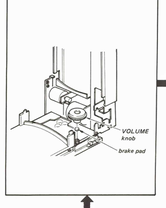


CONTROL PANEL REPLACEMENT

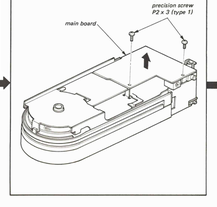
1. Remove the deposit at the section marked ※ 2 with a soldering iron or nippers, and lift the control button spring up (with arm down/up, MANUAL buttons in place) to remove.
2. Pull the START/STOP button down to remove and replace the control panel.
3. After mounting the control buttons and control button spring, flatten section ※ 2 with a soldering iron.



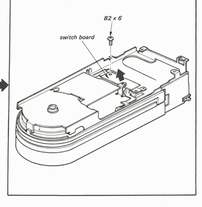
VOLUME KNOB



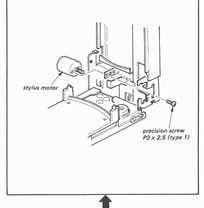
MAIN BOARD



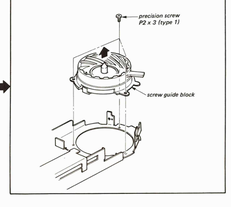
SWITCH BOARD

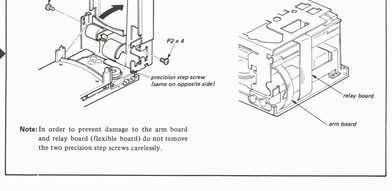


STYLUS MOTOR



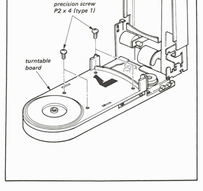
SCREW GUIDE BLOCK



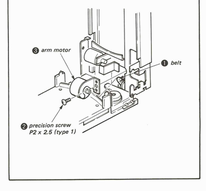


Note: In order to prevent damage to the arm board and relay board (flexible board) do not remove the two precision step screws carelessly.

TURNTABLE BOARD

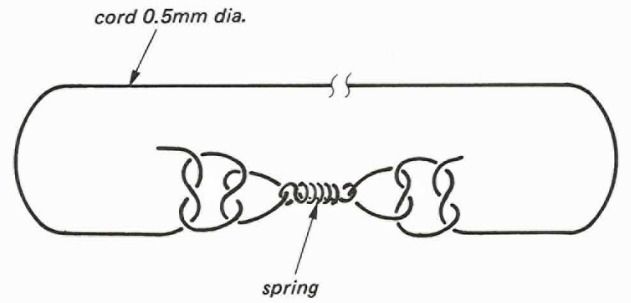


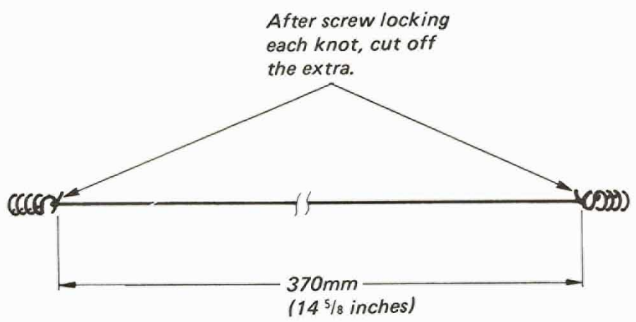
ARM MOTOR



2-2. CORD STRINGING

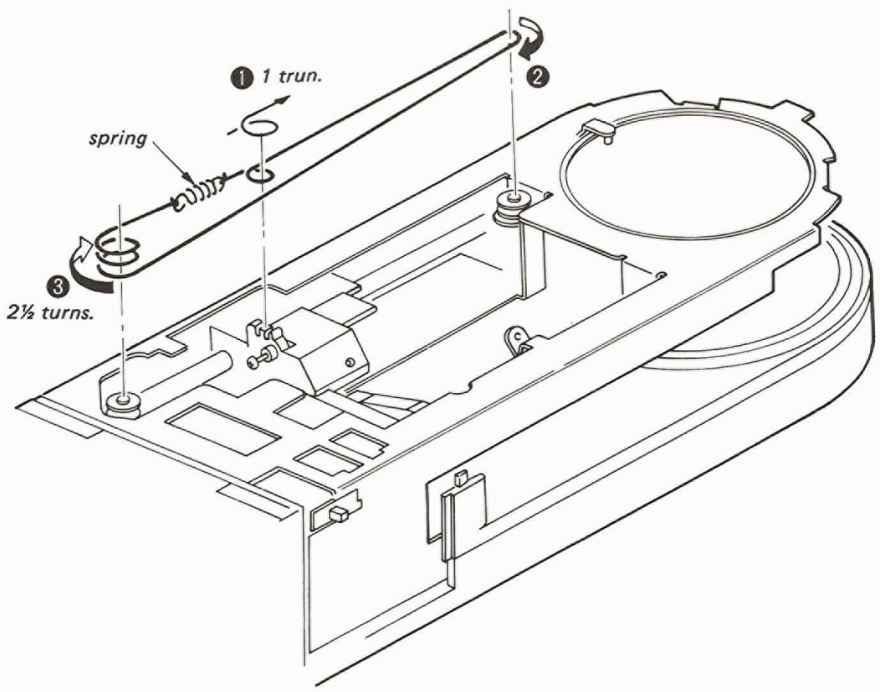
1. Cord Preparation





2. Cord Stringing

String the cord in order from ❶ – ❸



SECTION 3
ADJUSTMENTS

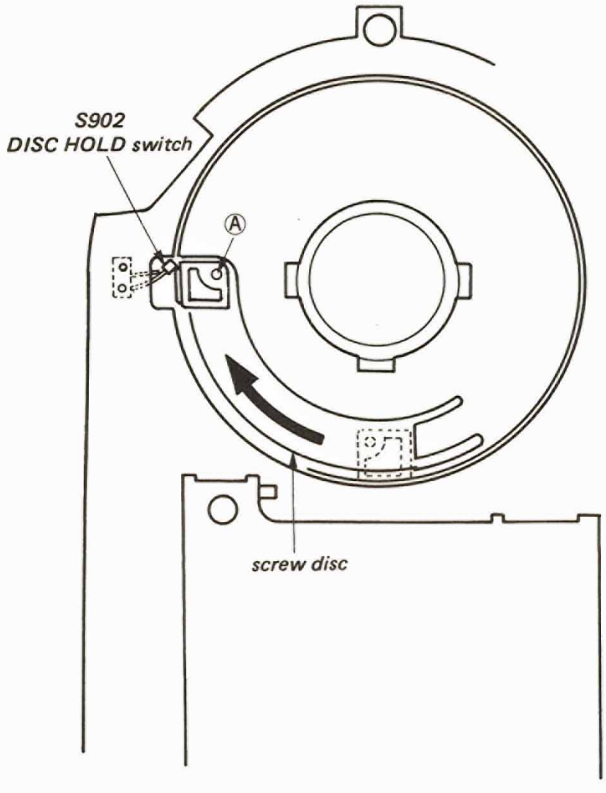
3-1. MECHANICAL ADJUSTMENTS

Preparation:

Perform as follows to operate the unit with the cabinet (upper) removed.

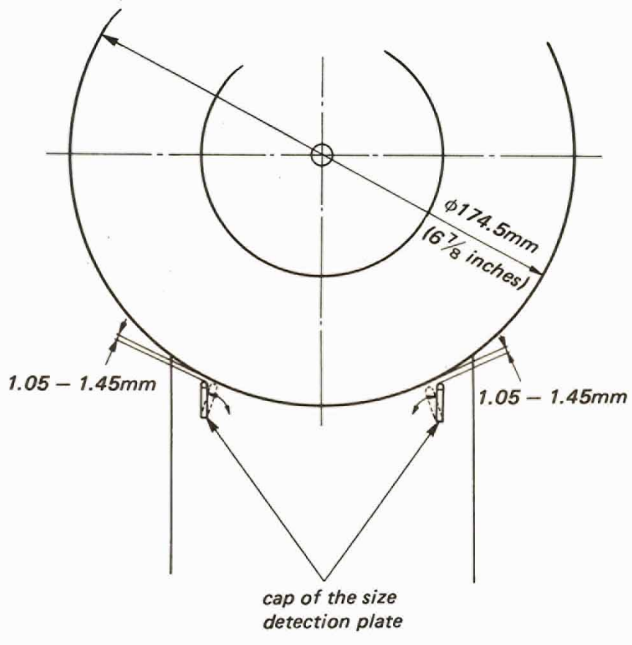
1. After placing a record, rotate the screw disc in the direction of the arrow as shown below, and lock the record.
2. Push the actuator Ⓐ of the DISC HOLD switch (S902) to turn the switch on with plastic tape. After the adjustment, remove the plastic tape.

Note: The unit does not operate even if each control button is pushed unless S902 turns on.



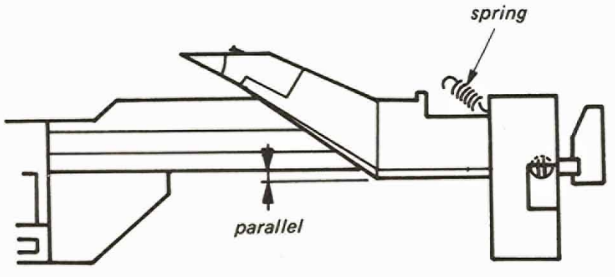
17cm Size Detection Plate Adjustment

1. SIZE switch: 17
2. Set a 17cm record (diameter: 174.5mm).
3. Adjust the caps by bending to the left and right so that the clearance between the caps and the record is 1.05 – 1.45mm.

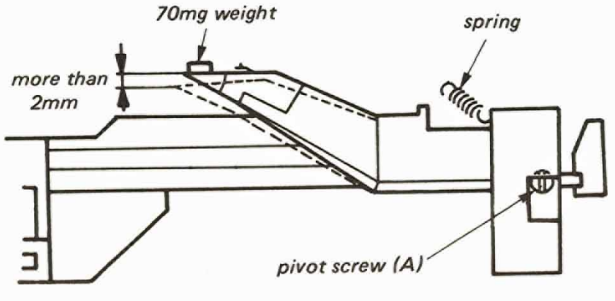


Vertical Balance and Sensitivity Adjustment

1. With the spring removed, confirm that the arm is balanced, as shown in the figure.

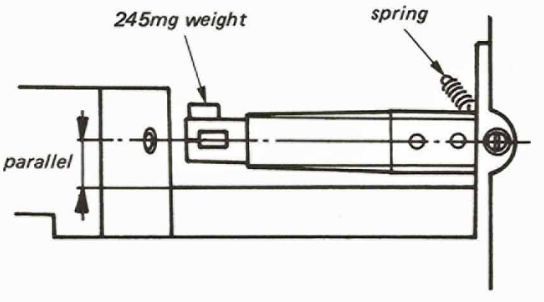


2. Adjust the pivot screw (A) so that the stylus tip drops more than 2mm when a 70mg weight (use washer, etc.) is placed on the stylus tip.
3. After adjustment, secure the pivot screw (A) with screw lock.
4. Mount the spring.

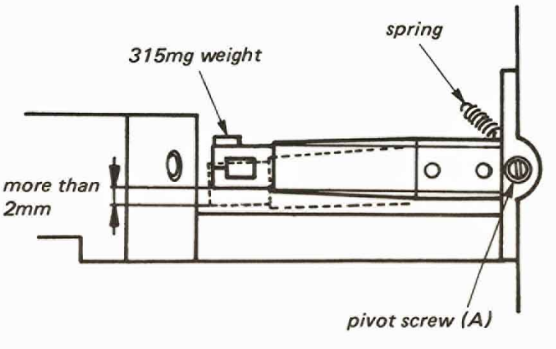


Horizontal Balance and Sensitivity Adjustment

1. With the spring removed, confirm that the arm is balanced when a 245mg weight is placed on the stylus tip, as shown in the figure.

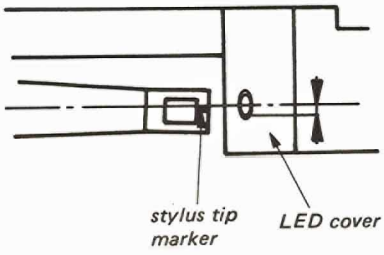


2. Adjust the pivot screw (A) so that the stylus tip drops more than 2mm when a 315mg weight is placed on the stylus tip.
3. After adjustment, secure the pivot screw (A) with screw lock.
4. Mount the spring.

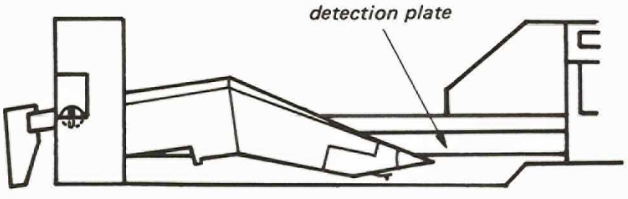


Arm Operation Point Check

1. SPEED switch: 33
   SIZE switch: 30
2. Set a 30cm record (see page 16).
3. Press the START/STOP button, and confirm that the arm motor goes ON/OFF when the stylus is led in, with the stylus tip marker in the range shown in the figure.

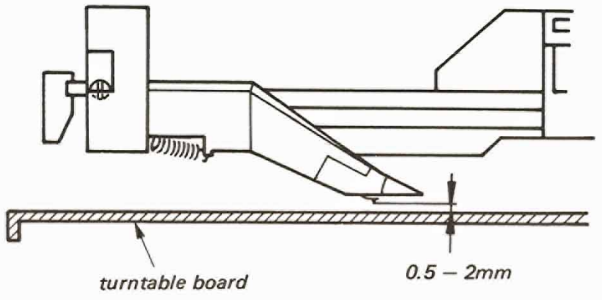


4. If it is not in the range shown, bend the detection plate to adjust.

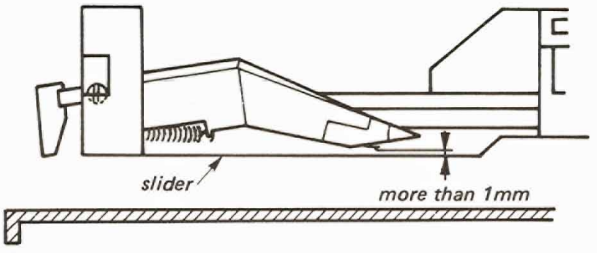


Stylus Tip Height Check

1. With no record placed, turn the DISC HOLD switch (S902) on (see page 16).
2. Press the arm down/up button and lower the arm.
3. At this time, confirm that the clearance between the stylus tip and turntable board surface is 0.5 – 2mm.



4. Press arm down/up button and raise the arm.
5. At this time, confirm that the clearance between the stylus tip and bottom of the slider is more than 1mm.



Drop Point Check

1. SPEED switch: 45
   SIZE switch: 17
2. Set a 17cm test record (4RS-1170) (see page 16).
3. Press the START/STOP button and confirm that the drop point is 10 – 19 counts.
4. Press the START/STOP button and return the arm.
5. SPEED switch: 33
   SIZE switch: 30
6. Press the DISC HOLD button and change to a 30cm test record (YFSC-16).
7. Press the START/STOP button and confirm that the drop point is 8 – 19 counts.
8. Perform this check with the set both standing up and lying down.

Return Position Check

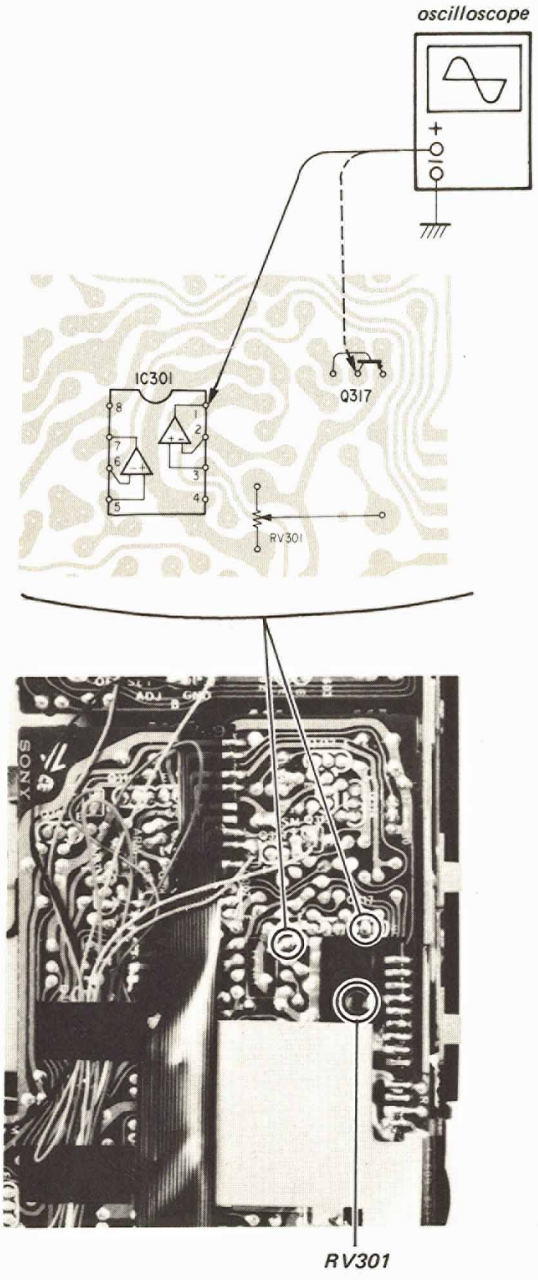
1. SPEED switch: 45
   SIZE switch: 17
2. Set a 17cm test record (4RS-1170) (see page 16).
3. Press MANUAL (△) button and place the arm near the innermost circumference.
4. Press the arm down/up button to lower the arm, and check that the return position is 23 – 28 counts.
5. Press the START/STOP button and return the arm.
6. SPEED switch: 33
   SIZE switch: 30
7. Press the DISC HOLD button and change to a 30cm test record (YFSC-16).
8. Press MANUAL (△) button and place the arm near the innermost circumference.
9. Press the arm down/up button to lower the arm, and check that the return position is 9 – 12 counts.
10. Perform this check with the set both standing up and lying down.

3-2. ELECTRICAL ADJUSTMENTS

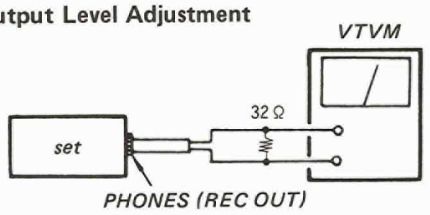
Arm Count Offset Adjustment

1. SPEED switch: 33
   SIZE switch: 30
   DISC HOLD knob: DISC HOLD
2. Press the MANUAL (△) button for about 0.5 seconds and put the arm into waiting state.
3. Adjust RV301 so that IC301 pin ① output voltage is 0.17 – 0.23V at this time.
4. Next, press the MANUAL (△) button continuously and check that Q317 collector voltage changes from 0V to 3.2 – 3.8V at 17cm record drop point position.

Adjustment Location: main board



Play Output Level Adjustment



1. SPEED switch: 33
   SIZE switch: 30
2. Set a 30cm test record (YFSC-16) and turn the DISC HOLD knob fully clockwise.
3. Play the 1kHz portion of the test record and adjust the VOLUME control so that L-CH PHONES level is 0.17V (–13dB).
4. At this time, confirm that the VOLUME control scale and level difference between channels are the adjustment values.
5. If not, adjust by changing the solder bridge.

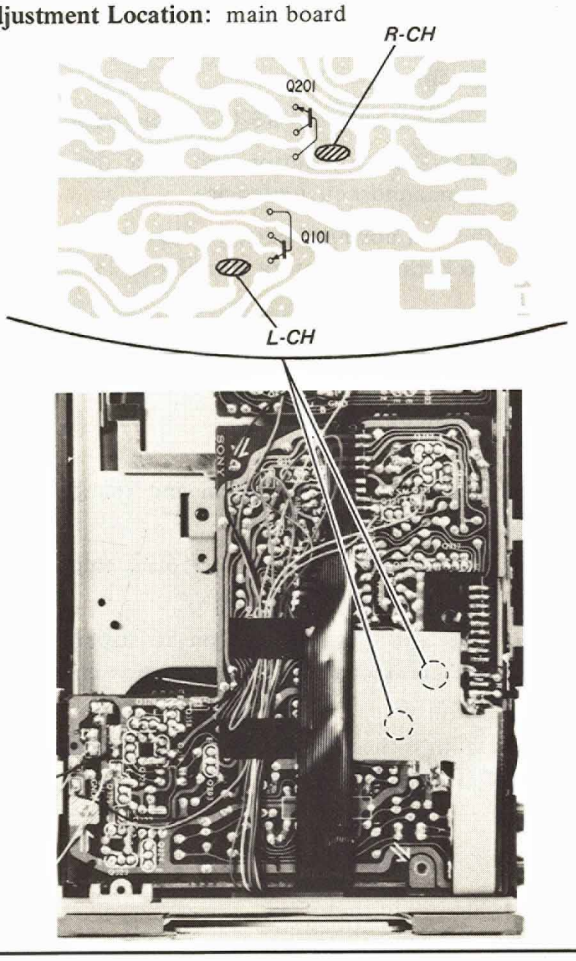
pattern	PHONES level
open	down
short	up

Adjustment Value:

VOLUME control scale: 3.5 – 5.5

Level difference between channels: less than 3dB

Adjustment Location: main board

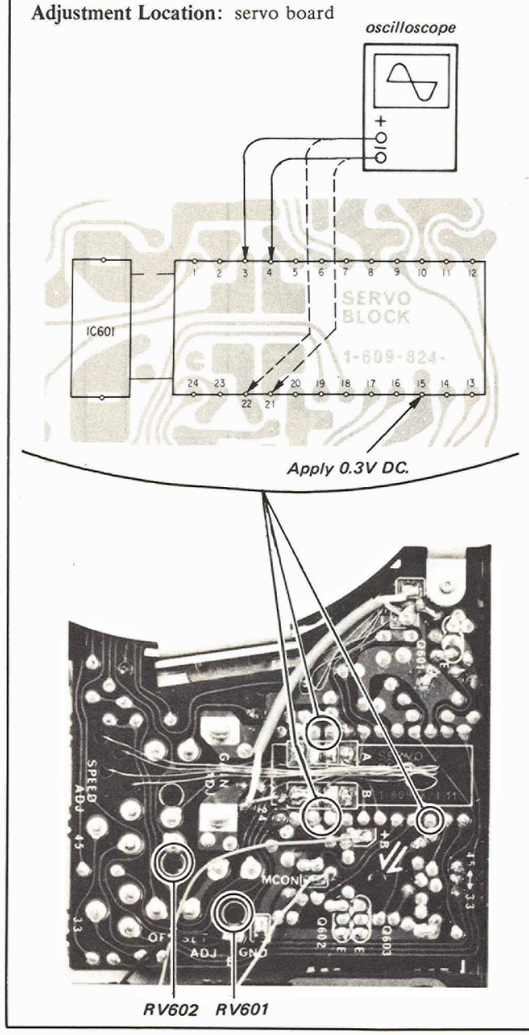


Servo Offset Adjustment

1. With POWER switch off, remove the motor block from the set and take off the turntable (see page 9).
2. POWER switch: ON
   DISC HOLD knob: DISC HOLD
3. Apply 0.3V DC to IC601 pin (15) (play mode).
4. Adjust RV602 so that the voltage between IC601 pins (3) and (4) is 0 ±3mV.
5. In the same way, adjust RV601 so that the voltage between IC601 pins (21) and (22) is ±3mV.

Note: When the turntable is mounted, turn POWER switch off.

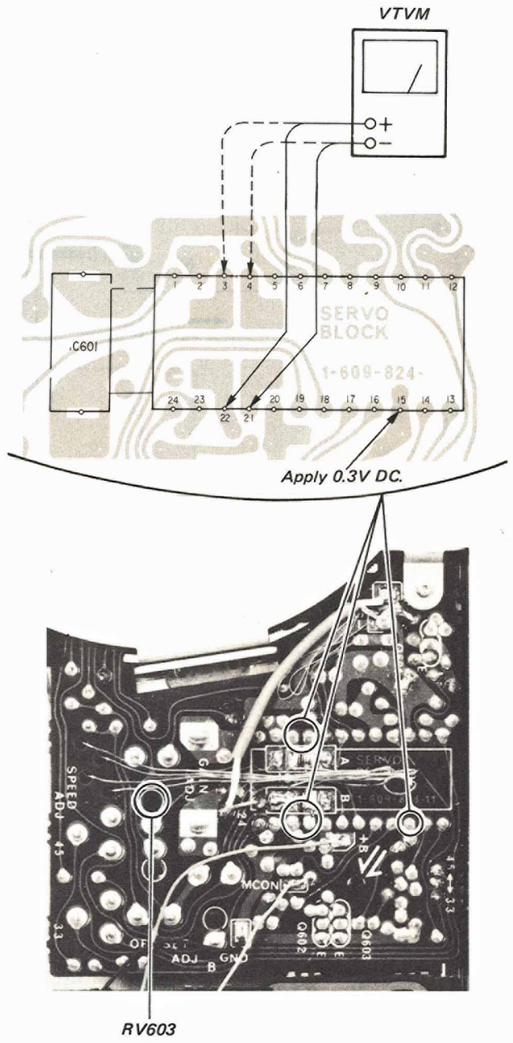
Adjustment Location: servo board



Servo Output Level Adjustment

1. SPEED switch: 33
   SIZE switch: 30
2. Apply 0.3V DC to IC601 pin (15) and rotate the motor.
3. Measure the output level between IC601 pins (21) and (22).
4. Next, measure the output level between IC601 pins (3) and (4), and adjust RV603 so that the difference between the two output levels is −1.5 to 1.5dB.

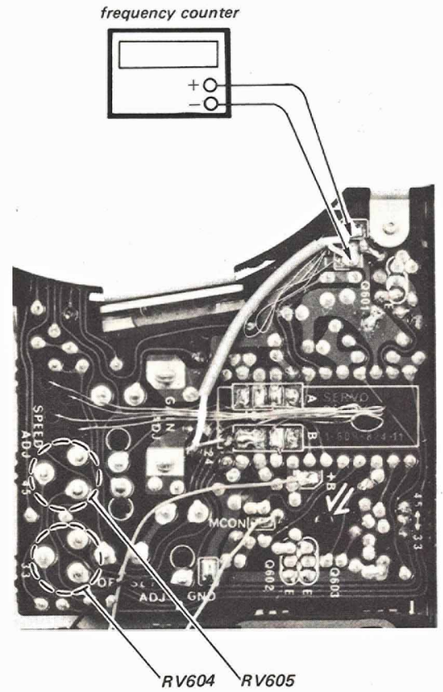
Adjustment Location: servo board



Servo Speed Adjustment

1. SPEED switch: 33
   DISC HOLD knob: DISC HOLD
2. When rotate the turntable, adjust RV604 so that FG output frequency is 338Hz.
3. SPEED switch: 45
4. Adjust RV605 so that FG output frequency is 456Hz.

Adjustment Location: servo board



MEMO

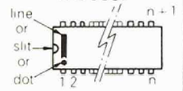
Semiconductor Lead Layouts

2SA1048-GR
2SC2458

2SB1013
2SC2001

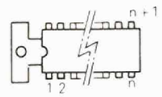
2SB733
2SD773

NJM2904D
TA7688P



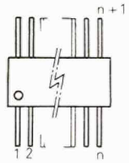
(Top view)

CX20048

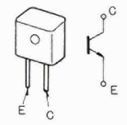


(Top view)

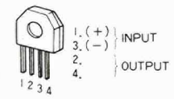
MSM5842-18GS



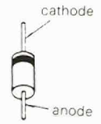
PH104



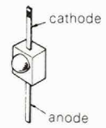
THS103A



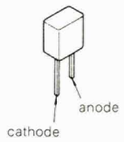
1S1555



BR2222S

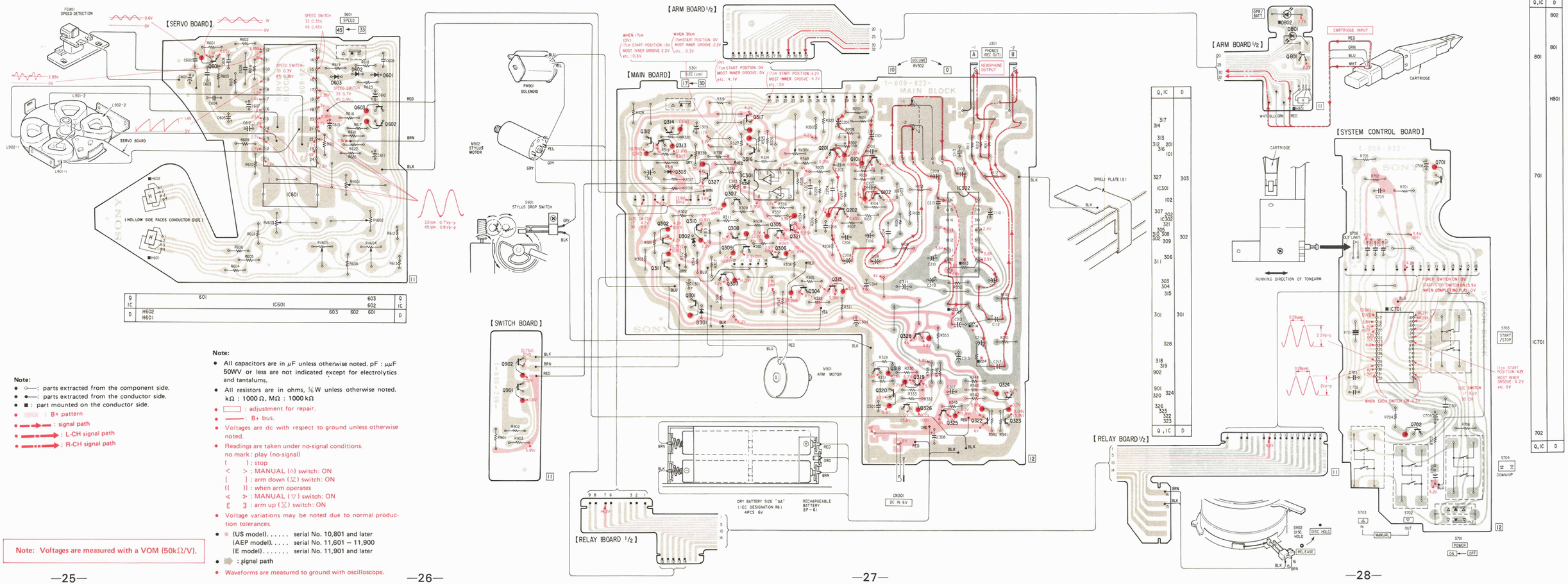


SR110



4-1. MOUNTING DIAGRAM — Conductor Side —

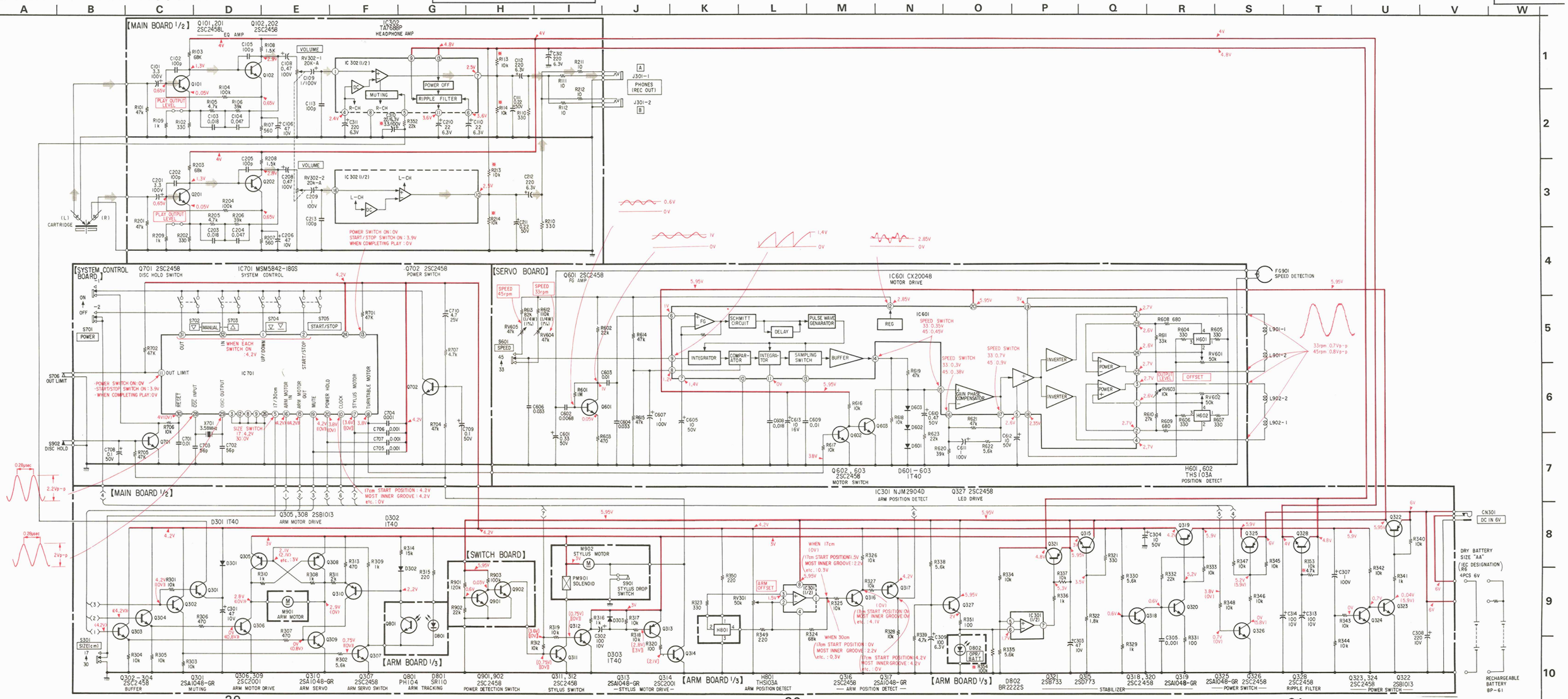
Refer to page 24 for semiconductor lead layouts.



Note:
- ○—: parts extracted from the component side.
- ●—: parts extracted from the conductor side.
- ■: part mounted on the conductor side.
- : B+ pattern
- : signal path
- : L-CH signal path
- : R-CH signal path

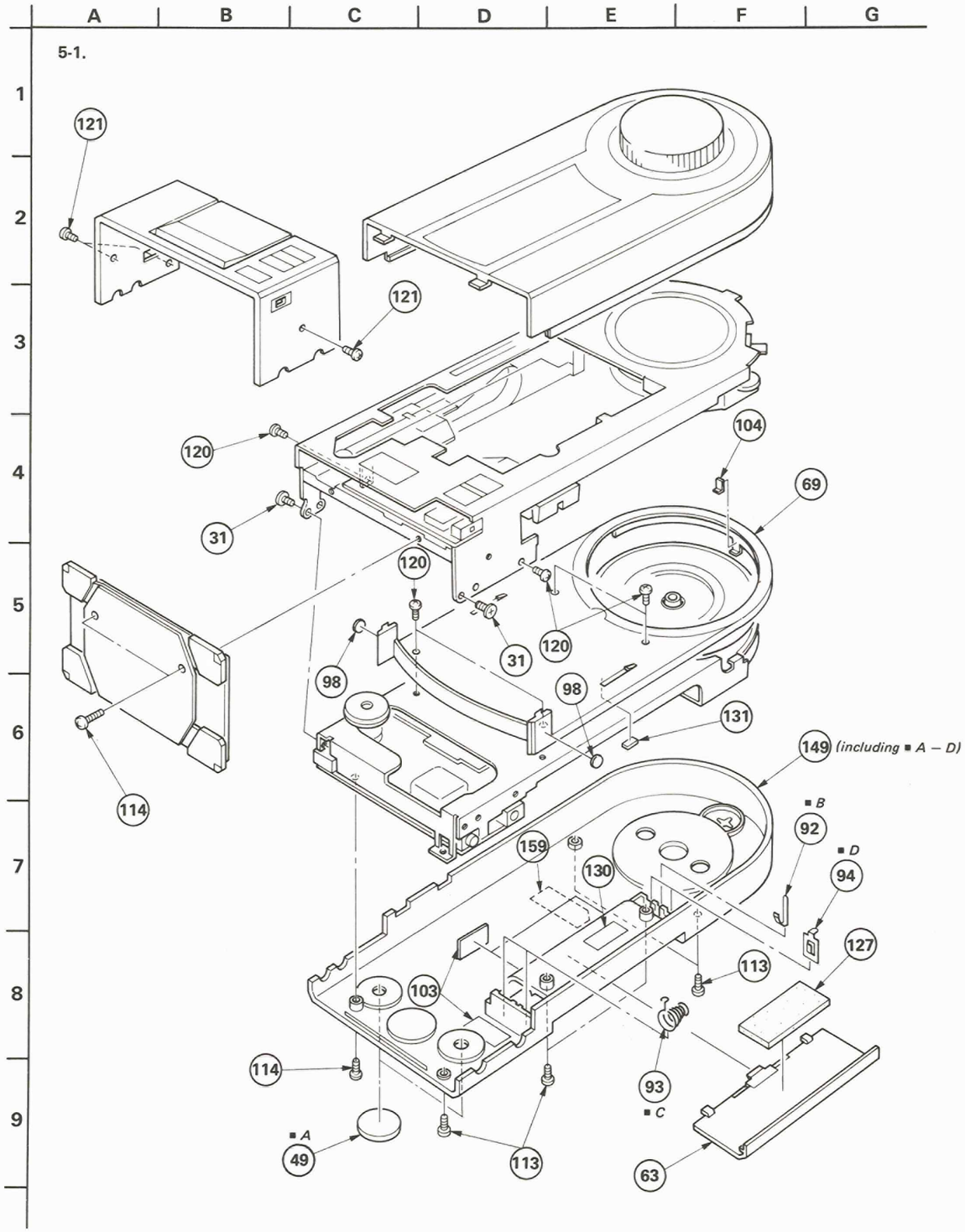
Note:
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, ⅛ W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- : adjustment for repair.
- : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions.
  no mark : play (no-signal)
  ( ) : stop
  < > : MANUAL (△) switch: ON
  { } : arm down (▽) switch: ON
  (( )) : when arm operates
  ≪ ≫ : MANUAL (▽) switch: ON
  ⟦ ⟧ : arm up (△) switch: ON
- Voltage variations may be noted due to normal production tolerances.
- ※ (US model). . . . . serial No. 10,801 and later
  (AEP model). . . . . serial No. 11,601 — 11,900
  (E model). . . . . serial No. 11,901 and later
- : signal path
- Waveforms are measured to ground with oscilloscope.

Note: Voltages are measured with a VOM (50kΩ/V).


【MAIN BOARD 1/2】
Q101,201 2SC2458L EQ AMP
Q102,202 2SC2458
IC302 TA7688P HEADPHONE AMP
VOLUME
RV302-1 20K-A
RV302-2 20K-A
IC 302 (1/2)
IC 302 (2/2)
MUTING
POWER OFF
RIPPLE FILTER
J301-1 PHONES (REC OUT)
J301-2
CARTRIDGE
【SYSTEM CONTROL BOARD】
Q701 2SC2458 DISC HOLD SWITCH
IC701 MSM5842-I8GS SYSTEM CONTROL
Q702 2SC2458 POWER SWITCH
S701 POWER
S702 MANUAL
S703 UP/DOWN
S704
S705 START/STOP
S706 OUT LIMIT
S902 DISC HOLD
X701 3.58MHz
【SERVO BOARD】
Q601 2SC2458 FG AMP
IC601 CX20048 MOTOR DRIVE
FG
SCHMITT CIRCUIT
DELAY
PULSE WAVE GENARATOR
REG
INTEGRATOR
COMPARATOR
INTEGRATOR
SAMPLING SWITCH
BUFFER
GAIN PHASE COMPENSATOR
INVERTER
POWER
F5901 SPEED DETECTION
S601 SPEED
Q602,603 2SC2458 MOTOR SWITCH
D601-603 1T40
H601,602 THS103A POSITION DETECT
IC301 NJM2904D ARM POSITION DETECT
Q327 2SC2458 LED DRIVE
【MAIN BOARD 1/2】
Q305,308 2SB1013 ARM MOTOR DRIVE
D301 1T40
D302 1T40
M901 ARM MOTOR
【SWITCH BOARD】
M902 STYLUS MOTOR
PM901 SOLENOID
S901 STYLUS DROP SWITCH
【ARM BOARD 1/3】
D801 SR110
H801 THS103A ARM POSITION DETECT
D802 BR2222S
Q302-304 2SC2458 BUFFER
Q301 2SA1048-GR MUTING
Q306,309 2SC2001 ARM MOTOR DRIVE
Q310 2SA1048-GR ARM SERVO
Q307 2SC2458 ARM SERVO SWITCH
Q801 PH104 ARM TRACKING
Q901,902 2SC2458 POWER DETECTION SWITCH
Q311,312 2SC2458 STYLUS SWITCH
Q313 2SA1048-GR STYLUS MOTOR DRIVE
Q314 2SC2001
Q316 2SC2458 ARM POSITION DETECT
Q317 2SA1048-GR ARM POSITION DETECT
Q321 2SB733 STABILIZER
Q315 2SD773 STABILIZER
Q318,320 2SC2458 STABILIZER
Q319 2SA1048-GR STABILIZER
Q325 2SA1048-GR POWER SWITCH
Q326 2SC2458 POWER SWITCH
Q328 2SC2458 RIPPLE FILTER
Q323,324 2SC2458 POWER SWITCH
Q322 2SB1013 POWER SWITCH
CN301 DC IN 6V
DRY BATTERY SIZE "AA" (IEC DESIGNATION LR6 4PCS 6V
RECHARGEABLE BATTERY BP-61
POWER SWITCH ON : 0V
START/STOP SWITCH ON : 3.9V
WHEN COMPLETING PLAY : 0V
17cm START POSITION : 4.2V
MOST INNER GROOVE : 4.2V
etc. : 0V
SPEED 45rpm
SPEED 33rpm
33rpm 0.7Vp-p
45rpm 0.8Vp-p
0.6V
0V
1V
1.4V
2.85V
4.8V
5.95V
4.2V
2.2Vp-p
0.28μsec

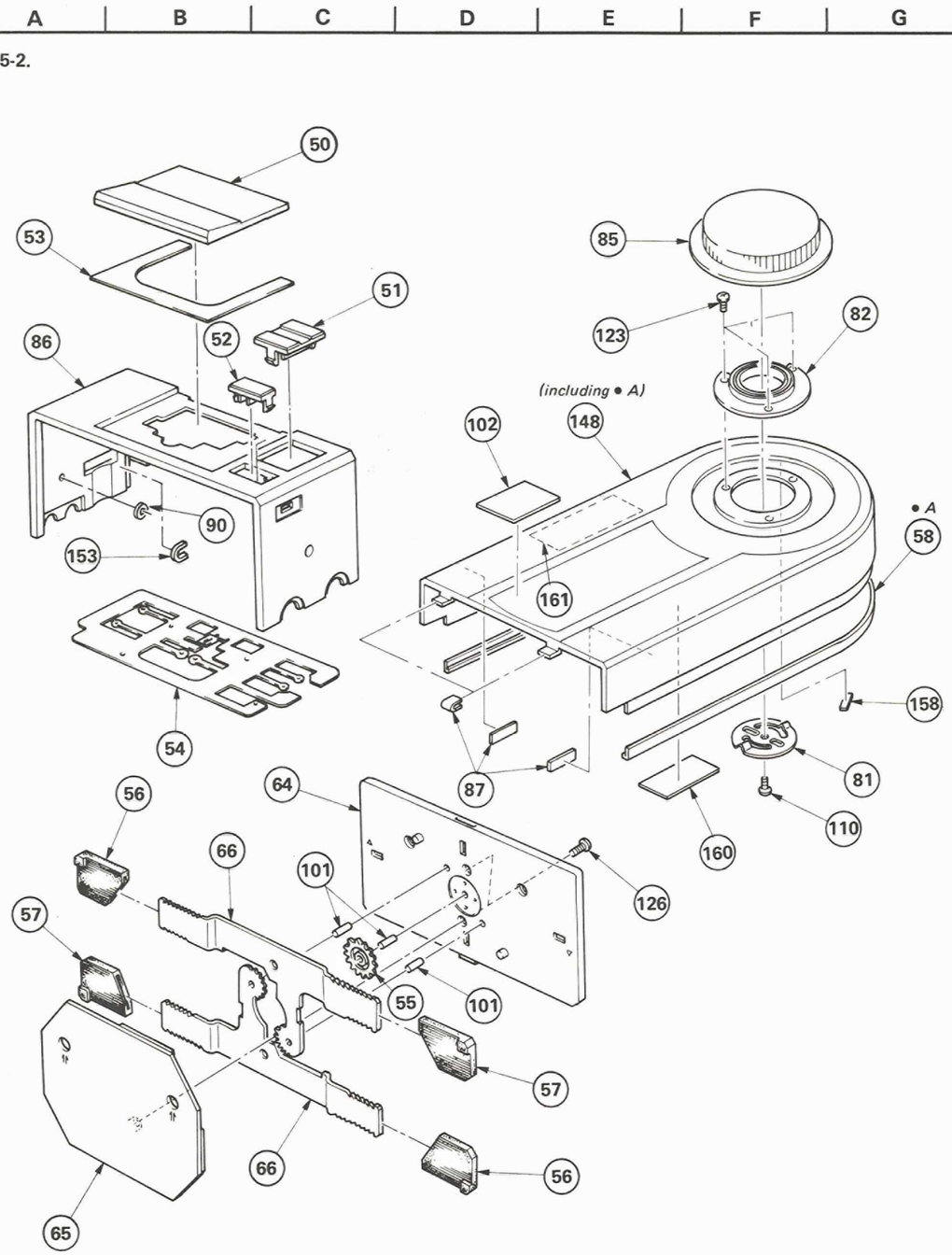
SECTION 5
EXPLODED VIEWS AND PARTS LIST

5-1.

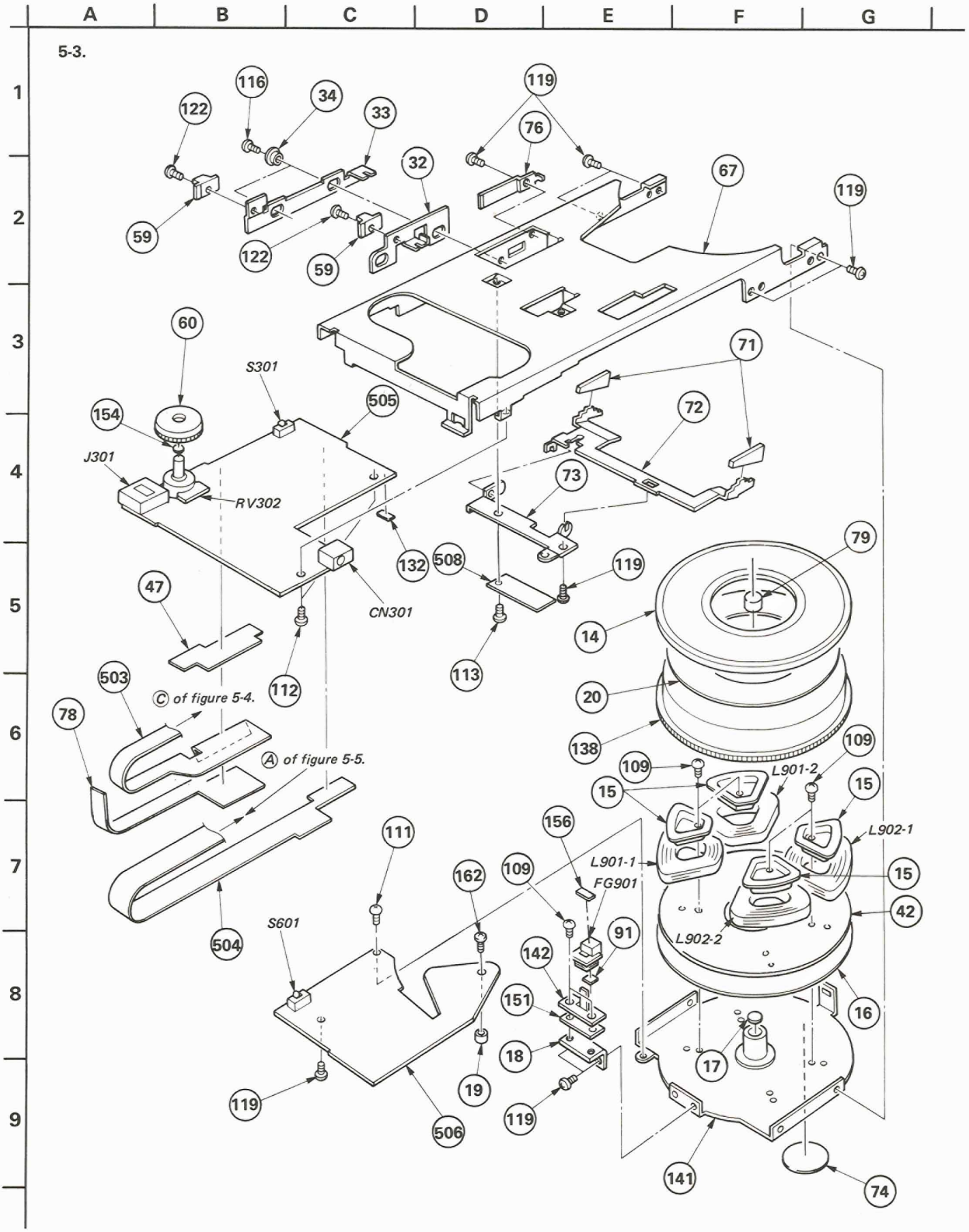


PS-F5

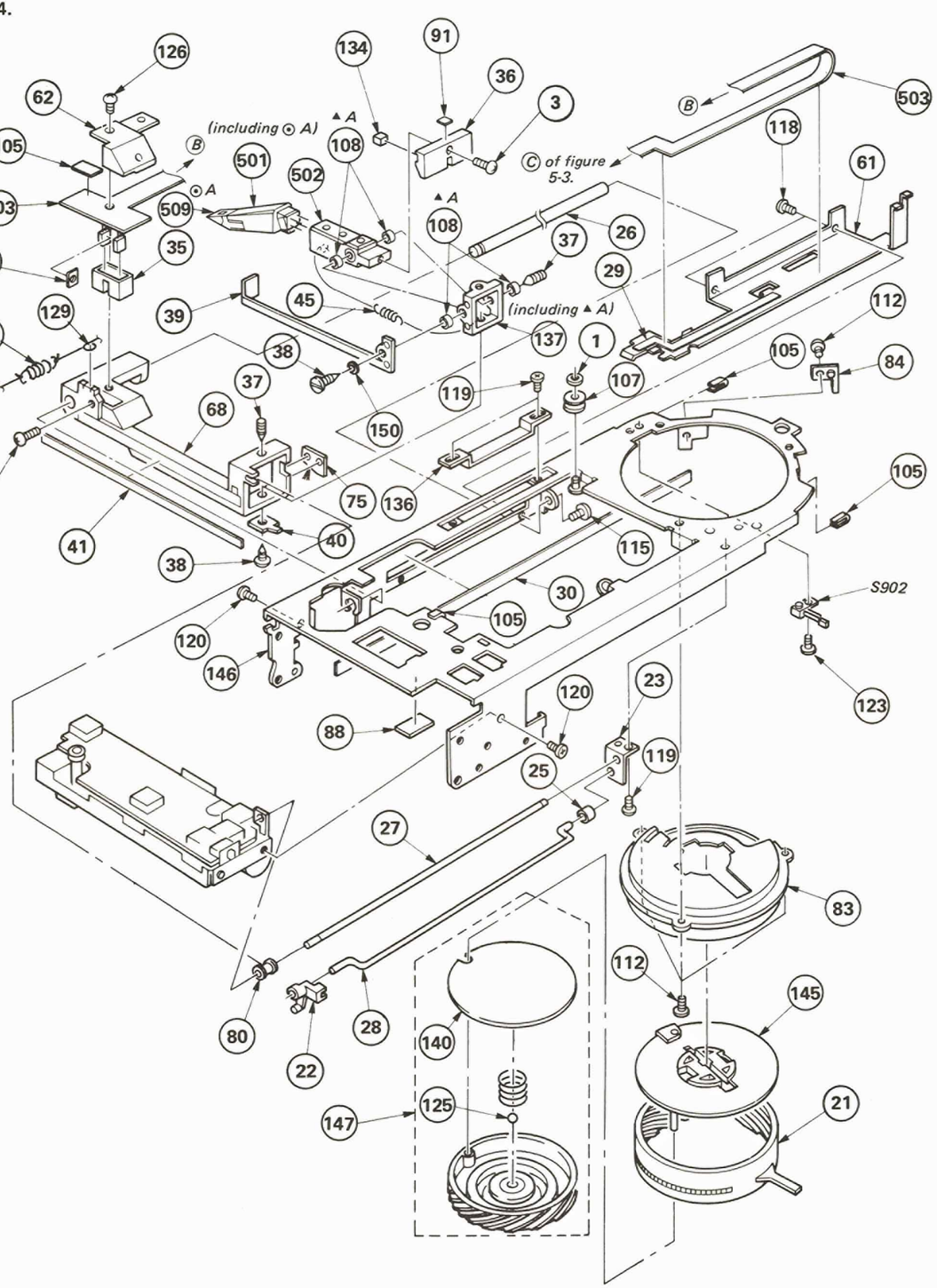
5-2.



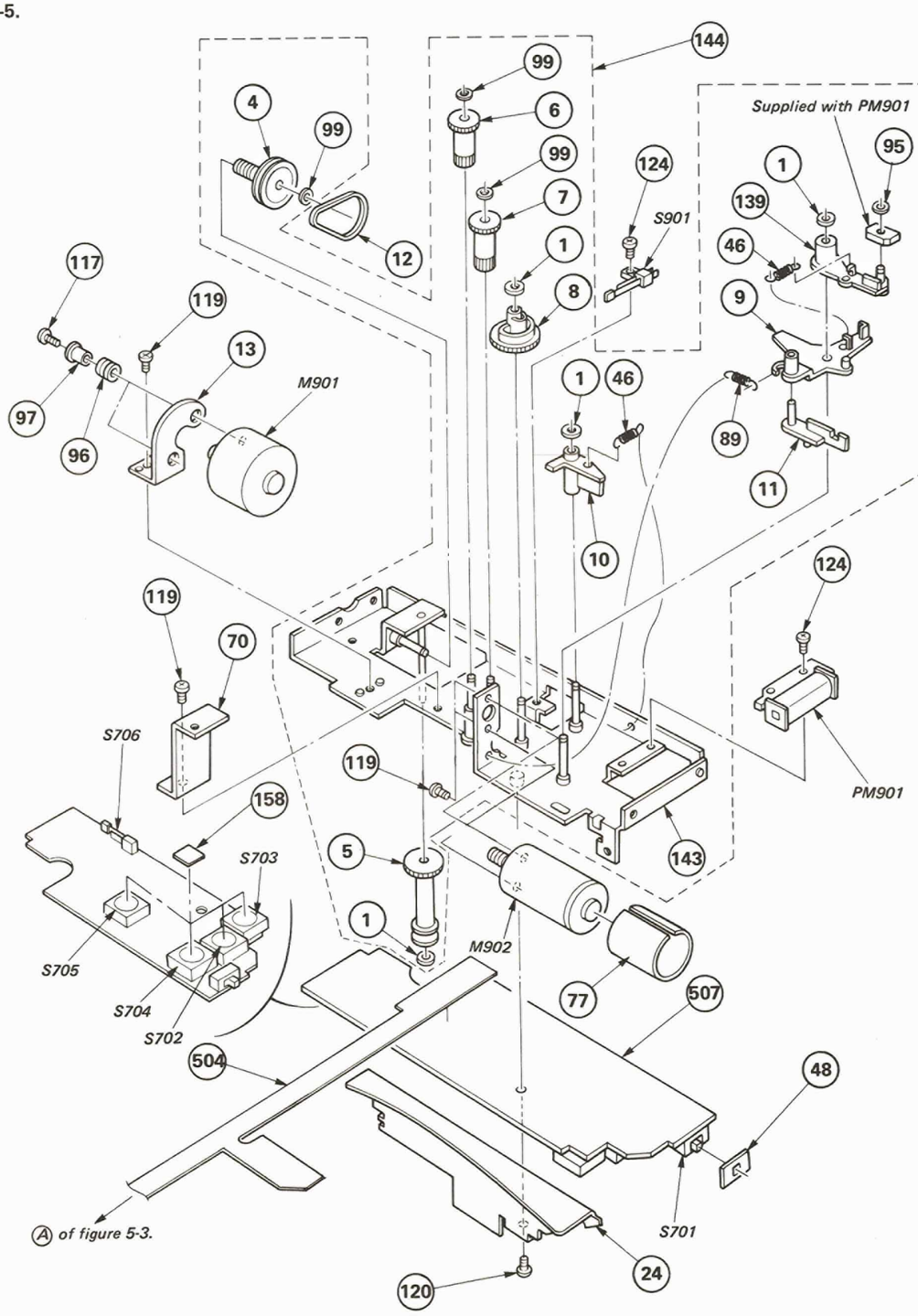
5-3.


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
116
34
33
122
59
32
122
59
119
76
67
119
60
S301
505
154
J301
RV302
71
72
73
132
508
119
79
47
CN301
14
113
112
503
Ⓒ of figure 5-4.
78
20
138
109
109
L901-2
15
15
15
156
111
L902-1
L901-1
FG901
162
109
15
42
91
L902-2
S601
142
151
16
18
17
19
119
119
506
141
74
504
Ⓐ of figure 5-5.

5-4.


(including ⊙ A)
▲ A
Ⓒ of figure 5-3.
(including ▲ A)
S902

5-5.


Supplied with PM901
S901
M901
PM901
S706
S703
S705
S704
S702
M902
S701
Ⓐ of figure 5-3.

GENERAL SECTION

No.	Part No.	Description
1	3-307-948-01	WASHER, NYLON
2	.....	
3	3-309-597-91	SCREW, TAPPING (1.4)
4	3-312-131-00	PULLEY, WORM
5	3-312-132-00	GEAR, DRUM
6	3-312-133-00	GEAR (A)
7	3-312-134-00	GEAR (B)
8	3-312-135-00	GEAR, CAM
9	3-312-136-00	LEVER, RELEASE, ARM
10	3-312-137-00	LEVER (S), ARM LOCK
11	3-312-138-00	LEVER (B), JOINT
12	3-312-139-00	BELT
13 ♦	3-312-140-00	BRACKET (A), MOTOR
14	3-312-141-02	SHEET, TURNTABLE
15	3-312-142-00	RETAINER, COIL
16 ♦	3-312-143-00	PLATE, YOKE
17	3-312-144-00	RETAINER, THRUST
18 ♦	3-312-145-00	BRACKET, FG
19	3-312-146-00	SPACER
20	3-312-147-00	SHEET, ADHESIVE, TURNTABLE SHEET
21	3-313-023-00	SCREW (W) (B)
22	3-312-151-00	LEVER (A), JOINT
23 ♦	3-312-153-00	PLATE, FULCRUM
24 ♦	3-312-154-00	PLATE, BLIND
25	3-312-155-00	COLLAR
26 ♦	3-312-156-00	SHAFT (M)
27 ♦	3-312-157-00	SHAFT, GUIDE, SLIDER
28 ♦	3-312-158-00	SHAFT, RELEASE, ARM
29 ♦	3-312-159-00	SHEET, ADHESIVE, FLEXIBLE
30 ♦	3-312-160-00	SHEET (B), ADHESIVE, FLEXIBLE
31	3-312-161-00	SCREW, STEP, PRECISION
32 ♦	3-312-162-00	LEVER, SELECTION, SIZE
33 ♦	3-312-163-00	LEVER, SELECTION, SPEED
34	3-312-164-00	SHAFT, SELECTION LEVER, SIZE
35	3-312-165-00	CASE, PHOTO
36	3-312-166-00	BALANCER
37	3-312-168-00	SCREW (A), PIVOT
38	3-312-169-00	SCREW (B), PIVOT
39	3-312-170-00	PLATE, DETECTION
40	3-312-171-00	GUIDE, CENTER RING
41	3-312-172-00	PLATE, SLIDER
42	3-312-271-00	SHEET, INSULATING, COIL
43	3-312-175-00	PLATE, BLIND
44	3-312-176-00	SPRING, TENSION
45	3-312-177-00	SPRING, TENSION

GENERAL SECTION

No.	Part No.	Description
46	3-312-179-00	SPRING, TENSION
47 ♦	3-312-181-00	SHEET, PROTECTION
48 ♦	3-312-182-00	PLATE, BLIND, SWITCH
49	3-312-185-01	FOOT, ROUND RUBBER
50	3-312-190-00	BUTTON, START
51	3-312-192-00	BUTTON, FAST FORWARD
52	3-312-193-00	BUTTON, UP DOWN
53	3-312-194-00	ORNAMENT, BUTTON
54	3-312-195-00	SPRING
55	3-312-196-00	GEAR, STAND
56	3-312-197-00	FOOT (A), RUBBER
57	3-312-198-00	FOOT (B), RUBBER
58	3-312-201-00	RUBBER, GUARD
59	3-312-206-00	KNOB, SELECTION
60	3-312-207-11	KNOB, CONTROL
61 ♦	3-312-211-00	GUIDE, FLEXIBLE
62	3-312-212-00	COVER, LED
63	3-312-213-11	LID, BATTERY CASE
64 ♦	3-312-214-00	PLATE, BOTTOM
65	3-312-215-00	RETAINER, STAND
66	3-312-216-00	STAND
67 ♦	3-312-219-00	CHASSIS
68	3-312-220-00	SLIDER
69 ♦	3-312-223-11	BOARD, TURNTABLE
70	3-312-225-00	REINFORCEMENT, SHAFT (A)
71	3-312-229-00	CAP
72 ♦	3-312-230-00	PLATE, DETECTION, SIZE
73	X-3312-119-0	BRACKET ASSY, DETECTION, SIZE
74 ♦	3-312-239-00	SHEET (A)
75	3-312-243-00	CLEANER
76	3-312-245-00	SPRING
77 ♦	3-312-246-00	PLATE, SHIELD, MOTOR
78 ♦	3-312-248-00	PLATE (B), SHIELD
79	9-911-815-02	CUSHION, SPINDLE
80	3-312-263-00	SLEEVE, DAMPER
81 ♦	3-313-004-00	RETAINER, KNOB
82 ♦	3-313-006-00	BEARING, HOLD KNOB
83 ♦	3-313-009-00	GUIDE (A), SCREW
84 ♦	3-313-012-00	STOPPER
85	3-313-013-00	KNOB, HOLD
86	3-313-014-00	PANEL (A), CONTROL
87	3-485-330-31	FELT, ABSORBER, VIBRATION
88	3-485-343-01	CUSHION, CABINET UPPER 10X7X0.5
89	3-534-558-00	SPRING, TENSION
90	3-563-514-11	WASHER (B), FIBER

GENERAL SECTION

No.	Part No.	Description
91	3-561-685-00	SHEET (C), INSULATING
92	3-562-215-00	BOARD, TERMINAL, RECHARGEABLE
93	3-562-216-00	SPRING
94	3-562-223-00	TERMINAL BOARD, POSITIVE
95	3-570-615-00	POLY-WASHER (DIA.1.2)
96	3-570-770-00	CUSHION (A), MOTOR
97	3-570-772-00	SPACER (M)
98	3-566-226-11	LABEL, PUSH
99	3-578-224-00	WASHER
100	.....	
101	3-703-358-00	PIN, PARALLEL (DIA. 2X6)
102	3-703-707-01	STICKER, SONY SYMBOL (21)
103	3-831-441-XX	CUSHION
104	3-831-441-XX	CUSHION
105	3-831-441-XX	CUSHION, CABINET UPPER 10X7X0.3
106	.....	
107	3-834-636-00	PULLEY
108	4-863-604-00	BEARING, PIVOT
109	7-621-255-12	SCREW +P 2X3
110	7-621-255-20	SCREW +P 2X4
111	7-621-255-22	SCREW +P 2X4
112	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE1
113	7-621-772-38	SCREW +B 2X6
114	7-621-772-48	SCREW +B 2X8
115	7-621-775-10	SCREW +B 2.6X4
116	7-627-452-18	SCREW, PRECISION +K 2X3
117	7-627-552-67	SCREW, PRECISION +P 1.7X4.5
118	7-627-553-18	SCREW, PRECISION +P 2X2
119	7-627-553-28	SCREW, PRECISION +P 2X2.5
120	7-627-553-48	SCREW, PRECISION +P 2X4
121	7-627-554-27	SCREW, PRECITION +P 2X6 TYPE 1
122	7-627-850-08	SCREW, PRECISION +P 1.4X2
123	7-627-850-28	SCREW, PRECISION +P 1.4X3
124	7-627-850-58	SCREW, PRECISION +P 1.4X3.5
125	7-671-114-01	BALL 4, STEEL
126	7-685-104-29	SCREW +P 2X6 TYPE2 SLIT
127	9-911-815-01	CUSHION
128	.....	
129	9-911-825-42	STRING, DIAL
130	9-911-838-XX	PACKING, KNOB
131	9-911-838-XX	CUSHION, METER
132	9-911-838-XX	CUSHION
133	.....	
134	9-911-840-XX	CUSHION (A)
135	.....	

GENERAL SECTION

No.	Part No.	Description
136 ♦	A-3036-833-A	PLATE ASSY, DETECTION, POSITION
137	X-3312-117-1	HOLDER ASSY, BEARING
138	X-3312-118-1	TURNTABLE ASSY
139	X-3312-103-0	LEVER (P) ASSY, ARM LOCK
140	X-3312-104-0	PLATE ASSY, UPPER, STABILIZER
141	X-3312-105-0	CHASSIS ASSY, MOTOR
142	X-3312-106-0	HEAD ASSY, FG
143	X-3312-110-0	CHASSIS ASSY, SUB
144 ♦	X-3312-116-0	DRIVING BLOCK COMP ASSY, ARM
145	X-3313-001-0	DISC ASSY, SCREW
146 ♦	X-3313-002-0	CHASSIS (A) ASSY, ARM
147	X-3313-003-0	SCREW (M) (A) ASSY
148	X-3313-004-0	CABINET (UPPER) ASSY
149	X-3313-005-0	CABINET (LOWER) (A) ASSY
150	3-701-438-11	WASHER, 2.5
151 ♦	3-312-261-00	SPACER, FG
152	.....	
153 ♦	3-312-255-00	PLATE, SIDE, CONTROL COVER
154	4-885-139-00	PAD, BRAKE
155	.....	
156	9-911-850-XX	CUSHION
157	.....	
158	3-572-862-11	SPACER
159	3-313-001-00	LABEL, MODEL NUMBER
160	3-313-021-00	LABEL (ENGLISH), CAUTION
161	3-313-019-00	(AEP,E)...LABEL (FRENCH), CAUTION
162	7-621-555-32	SCREW +K 2X5

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-555-658-00	CORD, CONNECTION (RK-129)
3-312-228-00	BAND, DISC
3-312-232-00	CUSHION
3-312-247-00	BRUSH
3-312-257-00	ADAPTOR
3-312-269-00	(E)...BAG, POLYETHYLENE
3-312-272-00	CUSHION, CORNER
3-313-020-00	INDIVIDUAL CARTON
3-313-025-00	INDIVIDUAL SUB CARTON
3-546-434-00	BAG, POLYETHYLEN
3-701-616-00	BAG, POLYETHYLENE
3-701-618-00	BAG, POLYETHYLENE
3-701-631-00	BAG, POLYETHYLENE
3-773-382-11	MANUAL, INSTRUCTION
8-951-151-91	(E)....MDR-W3 (B) SET

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UA···: μA···, UPA···: μPA···, UPC···: μPC,
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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501	1-549-115-21	CARTRIDGE			
502	1-562-240-00	CONNECTOR			
503	1-608-693-00	PC BOARD, ARM			
504	1-609-347-00	PC BOARD, RELAY			
505	♦;1-609-823-00	PC BOARD, MAIN			
505	♦;A-3070-103-A	MOUNTED PCB, MAIN			
506	♦;1-609-824-00	PC BOARD, SERVO			
506	♦;A-3065-034-A	MOUNTED PCB, SERVO			
507	♦;1-609-825-00	PC BOARD, SYSTEM CONTROL			
508	♦;1-610-219-00	PC BOARD, SWITCH			
509	1-549-119-00	STYLUS, ND-144G			
C101	1-123-382-00	ELECT	3.3MF	20%	100V
C102	1-102-106-00	CERAMIC	100PF	10%	50V
C103	1-130-486-00	MYLAR	0.018MF	5%	50V
C104	1-130-491-00	MYLAR	0.047MF	5%	50V
C105	1-102-106-00	CERAMIC	100PF	10%	50V
C106	1-123-306-00	ELECT	47MF	20%	10V
C108	1-123-379-00	ELECT	0.47MF	20%	100V
C109	1-123-380-00	ELECT	1MF	20%	100V
C110	1-123-618-00	ELECT	22MF	20%	6.3V
C111	1-123-608-00	ELECT	0.22MF	20%	50V
C112	1-123-296-00	ELECT	220MF	20%	6.3V
C113	1-102-106-00	CERAMIC	100PF	10%	50V
C201	1-123-382-00	ELECT	3.3MF	20%	100V
C202	1-102-106-00	CERAMIC	100PF	10%	50V
C203	1-130-486-00	MYLAR	0.018MF	5%	50V
C204	1-130-491-00	MYLAR	0.047MF	5%	50V
C205	1-102-106-00	CERAMIC	100PF	10%	50V
C206	1-123-306-00	ELECT	47MF	20%	10V
C208	1-123-379-00	ELECT	0.47MF	20%	100V
C209	1-123-380-00	ELECT	1MF	20%	100V
C210	1-123-618-00	ELECT	22MF	20%	6.3V
C211	1-123-608-00	ELECT	0.22MF	20%	50V
C212	1-123-296-00	ELECT	220MF	20%	6.3V
C213	1-102-106-00	CERAMIC	100PF	10%	50V
C301	1-123-306-00	ELECT	47MF	20%	10V
C302	1-123-307-00	ELECT	100MF	20%	10V
C303	1-123-306-00	ELECT	47MF	20%	10V
C304	1-123-356-00	ELECT	10MF	20%	50V
C305	1-102-074-00	CERAMIC	0.001MF	10%	50V
C307	1-123-380-00	ELECT	1MF	20%	100V
C308	1-123-308-00	ELECT	220MF	20%	10V
C309	1-123-661-00	ELECT	100MF	20%	6.3V
C310	1-123-618-00	ELECT	22MF	20%	6.3V
	(US).....UP TO SERIAL NO.10,800				
	(AEP).....UP TO SERIAL NO.10,300				
	SERIAL NO.11,401-11,600				
	(E).....SERIAL NO.10,301-11,400				

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C310	1-123-382-00	ELECT	3.3MF	20%	100V
	(US).....SERIAL NO.10,801 AND LATER				
	(AEP).....SERIAL NO.11,601-11,900				
	(E).....SERIAL NO.11,901 AND LATER				
C311	1-123-296-00	ELECT	220MF	20%	6.3V
C312	1-123-296-00	ELECT	220MF	20%	6.3V
C313	1-123-307-00	ELECT	100MF	20%	10V
C314	1-123-307-00	ELECT	100MF	20%	10V
C601	1-123-609-00	ELECT	0.33MF	20%	50V
C602	1-130-514-00	MYLAR	0.0068MF	10%	50V
C603	1-130-516-00	MYLAR	0.01MF	10%	50V
C604	1-130-522-00	MYLAR	0.033MF	10%	50V
C605	1-123-356-00	ELECT	10MF	20%	50V
C606	1-130-877-00	FILM	0.033MF	5%	50V
C607	1-123-380-00	ELECT	1MF	20%	100V
C608	1-130-519-00	MYLAR	0.018MF	10%	50V
C609	1-130-516-00	MYLAR	0.01MF	10%	50V
C610	1-123-610-00	ELECT	0.47MF	20%	50V
C611	1-123-380-00	ELECT	1MF	20%	100V
C612	1-123-356-00	ELECT	10MF	20%	50V
C613	1-123-617-00	ELECT	10MF	20%	16V
C701	1-130-516-00	MYLAR	0.01MF	10%	50V
C702	1-101-884-00	CERAMIC	56PF	10%	50V
C703	1-101-884-00	CERAMIC	56PF	10%	50V
C704	1-102-074-00	CERAMIC	0.001MF	10%	50V
C705	1-102-074-00	CERAMIC	0.001MF	10%	50V
C706	1-102-074-00	CERAMIC	0.001MF	10%	50V
C707	1-102-074-00	CERAMIC	0.001MF	10%	50V
C708	1-123-607-00	ELECT	0.1MF	20%	50V
C709	1-123-607-00	ELECT	0.1MF	20%	50V
C710	1-123-616-00	ELECT	4.7MF	20%	25V
CN301	1-507-749-00	JACK, EXTENTION POWER			
D301	8-719-815-55	DIODE 1S1555			
D302	8-719-815-55	DIODE 1S1555			
D303	8-719-815-55	DIODE 1S1555			
D601	8-719-815-55	DIODE 1S1555			
D602	8-719-815-55	DIODE 1S1555			
D603	8-719-815-55	DIODE 1S1555			
D801	8-719-101-11	DIODE SR110			
D802	8-719-922-24	DIODE BR2222S			
FG901	1-459-449-00	COIL			
H601	8-719-800-18	DIODE THS103A			
H602	8-719-800-18	DIODE THS103A			
H801	8-719-800-18	DIODE THS103A			

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC301	8-759-700-42	IC NJM2904D
IC302	8-759-201-23	IC TA7688P
IC601	8-752-004-80	IC CX20048
IC701	8-759-907-19	IC MSM5842-18GS
J301	1-507-727-00	JACK 2P
L901	1-462-204-00	COIL, MOTOR (STATOR)
L902	1-462-204-00	COIL, MOTOR (STATOR)
M901	8-835-087-01	MOTOR, DC (DNR-4601A)
M902	A-3133-175-A	MOTOR ASSY, STYLUS
PM901	1-454-350-00	SOLENOID, PLUNGER
Q101	8-729-245-83	TRANSISTOR 2SC2458
Q102	8-729-245-83	TRANSISTOR 2SC2458
Q201	8-729-245-83	TRANSISTOR 2SC2458
Q202	8-729-245-83	TRANSISTOR 2SC2458
Q301	8-729-204-83	TRANSISTOR 2SA1048-GR
Q302	8-729-245-83	TRANSISTOR 2SC2458
Q303	8-729-245-83	TRANSISTOR 2SC2458
Q304	8-729-245-83	TRANSISTOR 2SC2458
Q305	8-729-801-83	TRANSISTOR 2SB1013
Q306	8-729-100-13	TRANSISTOR 2SC2001
Q307	8-729-245-83	TRANSISTOR 2SC2458
Q308	8-729-801-83	TRANSISTOR 2SB1013
Q309	8-729-100-13	TRANSISTOR 2SC2001
Q310	8-729-204-83	TRANSISTOR 2SA1048-GR
Q311	8-729-245-83	TRANSISTOR 2SC2458
Q312	8-729-245-83	TRANSISTOR 2SC2458
Q313	8-729-204-83	TRANSISTOR 2SA1048-GR
Q314	8-729-100-13	TRANSISTOR 2SC2001
Q315	8-729-177-32	TRANSISTOR 2SD773
Q316	8-729-245-83	TRANSISTOR 2SC2458
Q317	8-729-204-83	TRANSISTOR 2SA1048-GR
Q318	8-729-245-83	TRANSISTOR 2SC2458
Q319	8-729-204-83	TRANSISTOR 2SA1048-GR
Q320	8-729-245-83	TRANSISTOR 2SC2458
Q321	8-729-113-33	TRANSISTOR 2SB733
Q322	8-729-801-83	TRANSISTOR 2SB1013
Q323	8-729-245-83	TRANSISTOR 2SC2458
Q324	8-729-245-83	TRANSISTOR 2SC2458
Q325	8-729-204-83	TRANSISTOR 2SA1048-GR
Q326	8-729-245-83	TRANSISTOR 2SC2458
Q327	8-729-245-83	TRANSISTOR 2SC2458
Q328	8-729-245-83	TRANSISTOR 2SC2458
Q601	8-729-245-83	TRANSISTOR 2SC2458

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Ref.No.	Part No.	Description
Q602	8-729-245-83	TRANSISTOR 2SC2458
Q603	8-729-245-83	TRANSISTOR 2SC2458
Q701	8-729-245-83	TRANSISTOR 2SC2458
Q702	8-729-245-83	TRANSISTOR 2SC2458
Q801	8-729-102-10	TRANSISTOR PH104
Q901	8-729-245-83	TRANSISTOR 2SC2458
Q902	8-729-245-83	TRANSISTOR 2SC2458
R101	1-247-871-00	CARBON 47K 5% 1/6W
R102	1-247-819-00	CARBON 330 5% 1/6W
R103	1-247-875-00	CARBON 68K 5% 1/6W
R104	1-247-879-00	CARBON 100K 5% 1/6W
R105	1-247-847-00	CARBON 4.7K 5% 1/6W
R106	1-247-869-00	CARBON 39K 5% 1/6W
R107	1-247-825-00	CARBON 560 5% 1/6W
R108	1-247-835-00	CARBON 1.5K 5% 1/6W
R109	1-247-831-00	CARBON 1K 5% 1/6W
R110	1-247-819-00	CARBON 330 5% 1/6W
R111	1-247-783-00	CARBON 10 5% 1/6W
R112	1-247-783-00	CARBON 10 5% 1/6W
R113	1-247-855-00	CARBON 10K 5% 1/6W (US).....SERIAL NO.10,801 AND LATER (AEP).....SERIAL NO.11,601-11,900 (E).....SERIAL NO.11,901 AND LATER
R114	1-247-855-00	CARBON 10K 5% 1/6W (US).....SERIAL NO.10,801 AND LATER (AEP).....SERIAL NO.11,601-11,900 (E).....SERIAL NO.11,901 AND LATER
R201	1-247-871-00	CARBON 47K 5% 1/6W
R202	1-247-819-00	CARBON 330 5% 1/6W
R203	1-247-875-00	CARBON 68K 5% 1/6W
R204	1-247-879-00	CARBON 100K 5% 1/6W
R205	1-247-847-00	CARBON 4.7K 5% 1/6W
R206	1-247-869-00	CARBON 39K 5% 1/6W
R207	1-247-825-00	CARBON 560 5% 1/6W
R208	1-247-835-00	CARBON 1.5K 5% 1/6W
R209	1-247-831-00	CARBON 1K 5% 1/6W
R210	1-247-819-00	CARBON 330 5% 1/6W
R211	1-247-783-00	CARBON 10 5% 1/6W
R212	1-247-783-00	CARBON 10 5% 1/6W
R213	1-247-855-00	CARBON 10K 5% 1/6W (US).....SERIAL NO.10,801 AND LATER (AEP).....SERIAL NO.11,601-11,900 (E).....SERIAL NO.11,901 AND LATER
R214	1-247-855-00	CARBON 10K 5% 1/6W (US).....SERIAL NO.10,801 AND LATER (AEP).....SERIAL NO.11,601-11,900 (E).....SERIAL NO.11,901 AND LATER

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R301	1-247-855-00	CARBON	10K	5%	1/6W
R302	1-247-849-00	CARBON	5.6K	5%	1/6W
R303	1-247-855-00	CARBON	10K	5%	1/6W
R304	1-247-855-00	CARBON	10K	5%	1/6W
R305	1-247-855-00	CARBON	10K	5%	1/6W
R306	1-247-823-00	CARBON	470	5%	1/6W
R307	1-247-823-00	CARBON	470	5%	1/6W
R308	1-247-831-00	CARBON	1K	5%	1/6W
R312	1-247-855-00	CARBON	10K	5%	1/6W
R313	1-247-823-00	CARBON	470	5%	1/6W
R314	1-247-859-00	CARBON	15K	5%	1/6W
R315	1-247-815-00	CARBON	220	5%	1/6W
R316	1-247-831-00	CARBON	1K	5%	1/6W
R317	1-247-855-00	CARBON	10K	5%	1/6W
R309	1-247-831-00	CARBON	1K	5%	1/6W
R310	1-247-831-00	CARBON	1K	5%	1/6W
R311	1-247-838-00	CARBON	2K	5%	1/6W
R318	1-247-855-00	CARBON	10K	5%	1/6W
R319	1-247-855-00	CARBON	10K	5%	1/6W
R320	1-247-807-00	CARBON	100	5%	1/6W
R321	1-247-819-00	CARBON	330	5%	1/6W
R322	1-247-837-00	CARBON	1.8K	5%	1/6W
R323	1-247-819-00	CARBON	330	5%	1/6W
R324	1-247-875-00	CARBON	68K	5%	1/6W
R325	1-247-855-00	CARBON	10K	5%	1/6W
R326	1-247-855-00	CARBON	10K	5%	1/6W
R327	1-247-855-00	CARBON	10K	5%	1/6W
R328	1-247-855-00	CARBON	10K	5%	1/6W
R329	1-247-831-00	CARBON	1K	5%	1/6W
R330	1-247-849-00	CARBON	5.6K	5%	1/6W
R331	1-247-807-00	CARBON	100	5%	1/6W
R332	1-247-863-00	CARBON	22K	5%	1/6W
R333	1-247-855-00	CARBON	10K	5%	1/6W
R334	1-247-855-00	CARBON	10K	5%	1/6W
R335	1-247-849-00	CARBON	5.6K	5%	1/6W
R336	1-247-831-00	CARBON	1K	5%	1/6W
R337	1-247-855-00	CARBON	10K	5%	1/6W
R338	1-247-849-00	CARBON	5.6K	5%	1/6W
R339	1-247-847-00	CARBON	4.7K	5%	1/6W
R340	1-247-855-00	CARBON	10K	5%	1/6W
R341	1-247-831-00	CARBON	1K	5%	1/6W
R342	1-247-855-00	CARBON	10K	5%	1/6W
R343	1-247-855-00	CARBON	10K	5%	1/6W
R344	1-247-855-00	CARBON	10K	5%	1/6W
R345	1-247-855-00	CARBON	10K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R346	1-247-855-00	CARBON	10K	5%	1/6W
R347	1-247-855-00	CARBON	10K	5%	1/6W
R348	1-247-855-00	CARBON	10K	5%	1/6W
R349	1-247-815-00	CARBON	220	5%	1/6W
R350	1-247-815-00	CARBON	220	5%	1/6W
R351	1-247-807-00	CARBON	100	5%	1/6W
R352	1-247-863-00	CARBON	22K	5%	1/6W
R353	1-247-855-00	CARBON	10K	5%	1/6W
	(US).....UP TO SERIAL NO.10,800				
	(AEP).....UP TO SERIAL NO.10,300				
	SERIAL NO.11,401-11,600				
	(E).....SERIAL NO.10,301-11,400				
R353	1-247-847-00	CARBON	4.7K	5%	1/6W
	(US).....SERIAL NO.10,801 AND LATER				
	(AEP).....SERIAL NO.11,601-11,900				
	(E).....SERIAL NO.11,901 AND LATER				
R354	1-247-879-00	CARBON	100K	5%	1/6W
	(US).....SERIAL NO.10,801 AND LATER				
	(AEP).....SERIAL NO.11,601-11,900				
	(E).....SERIAL NO.11,901 AND LATER				
R601	1-247-903-00	CARBON	1M	5%	1/6W
R602	1-247-863-00	CARBON	22K	5%	1/6W
R603	1-247-823-00	CARBON	470	5%	1/6W
R604	1-247-819-00	CARBON	330	5%	1/6W
R605	1-247-819-00	CARBON	330	5%	1/6W
R606	1-247-819-00	CARBON	330	5%	1/6W
R607	1-247-819-00	CARBON	330	5%	1/6W
R608	1-247-827-00	CARBON	680	5%	1/6W
R609	1-247-827-00	CARBON	680	5%	1/6W
R610	1-247-865-00	CARBON	27K	5%	1/6W
R611	1-247-867-00	CARBON	33K	5%	1/6W
R612	1-214-778-00	METAL	110K	1%	1/4W
R613	1-214-775-00	METAL	82K	1%	1/4W
R614	1-247-871-00	CARBON	47K	5%	1/6W
R615	1-247-871-00	CARBON	47K	5%	1/6W
R616	1-247-855-00	CARBON	10K	5%	1/6W
R617	1-247-855-00	CARBON	10K	5%	1/6W
R618	1-247-855-00	CARBON	10K	5%	1/6W
R619	1-247-871-00	CARBON	47K	5%	1/6W
R620	1-247-869-00	CARBON	39K	5%	1/6W
R621	1-247-871-00	CARBON	47K	5%	1/6W
R622	1-247-849-00	CARBON	5.6K	5%	1/6W
R623	1-247-863-00	CARBON	22K	5%	1/6W
R701	1-247-871-00	CARBON	47K	5%	1/6W
R702	1-247-871-00	CARBON	47K	5%	1/6W
R704	1-247-871-00	CARBON	47K	5%	1/6W
R705	1-247-871-00	CARBON	47K	5%	1/6W

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R706	1-247-855-00	CARBON 10K 5% 1/6W
R707	1-247-847-00	CARBON 4.7K 5% 1/6W
R901	1-247-881-00	CARBON 120K 5% 1/6W
R902	1-247-863-00	CARBON 22K 5% 1/6W
R903	1-247-879-00	CARBON 100K 5% 1/6W
RV301	1-226-238-00	RES, ADJ, CARBON 50K
RV302	1-228-104-00	RES, VAR, CARBON 20K/20K
RV601	1-226-238-00	RES, ADJ, CARBON 50K
RV602	1-226-238-00	RES, ADJ, CARBON 50K
RV603	1-226-236-00	RES, ADJ, CARBON 10K
RV604	1-224-661-00	RES, ADJ, METAL FILM 47K
RV605	1-224-661-00	RES, ADJ, METAL FILM 47K
S301	1-554-142-00	SWITCH, SLIDE
S601	1-554-142-00	SWITCH, SLIDE
S701	1-554-123-00	SWITCH, SLIDE
S702	1-552-174-00	SWITCH, PUSH
S703	1-552-174-00	SWITCH, PUSH
S704	1-552-174-00	SWITCH, PUSH
S705	1-552-174-00	SWITCH, PUSH
S706	1-554-297-00	SWITCH, LEAF
S901	1-553-226-00	SWITCH, LEAF
S902	1-553-226-00	SWITCH, LEAF
X701	1-567-094-00	VIBRATOR, CERAMIC

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UPD···: μPD···

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